





**Fig. 3**

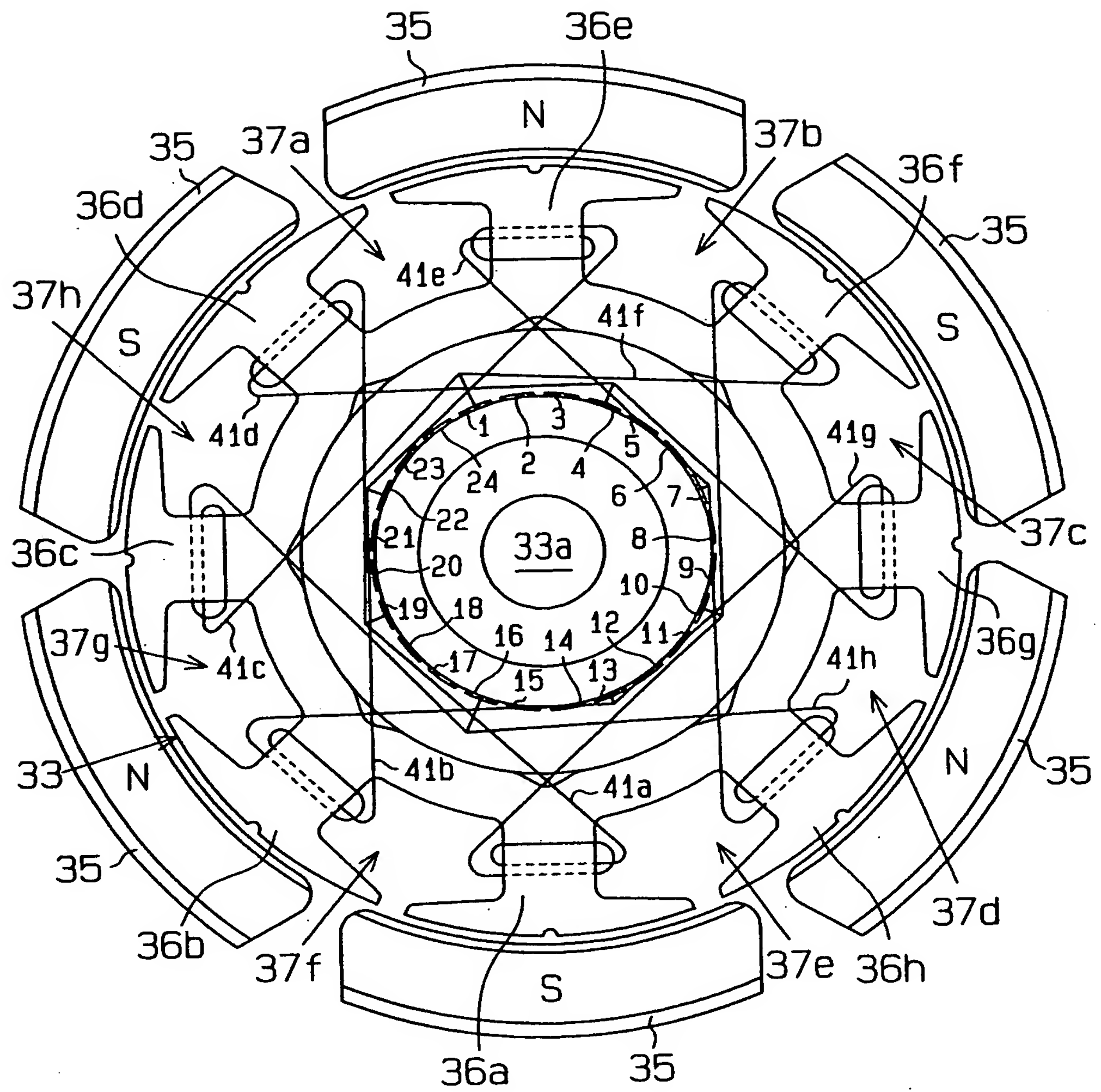
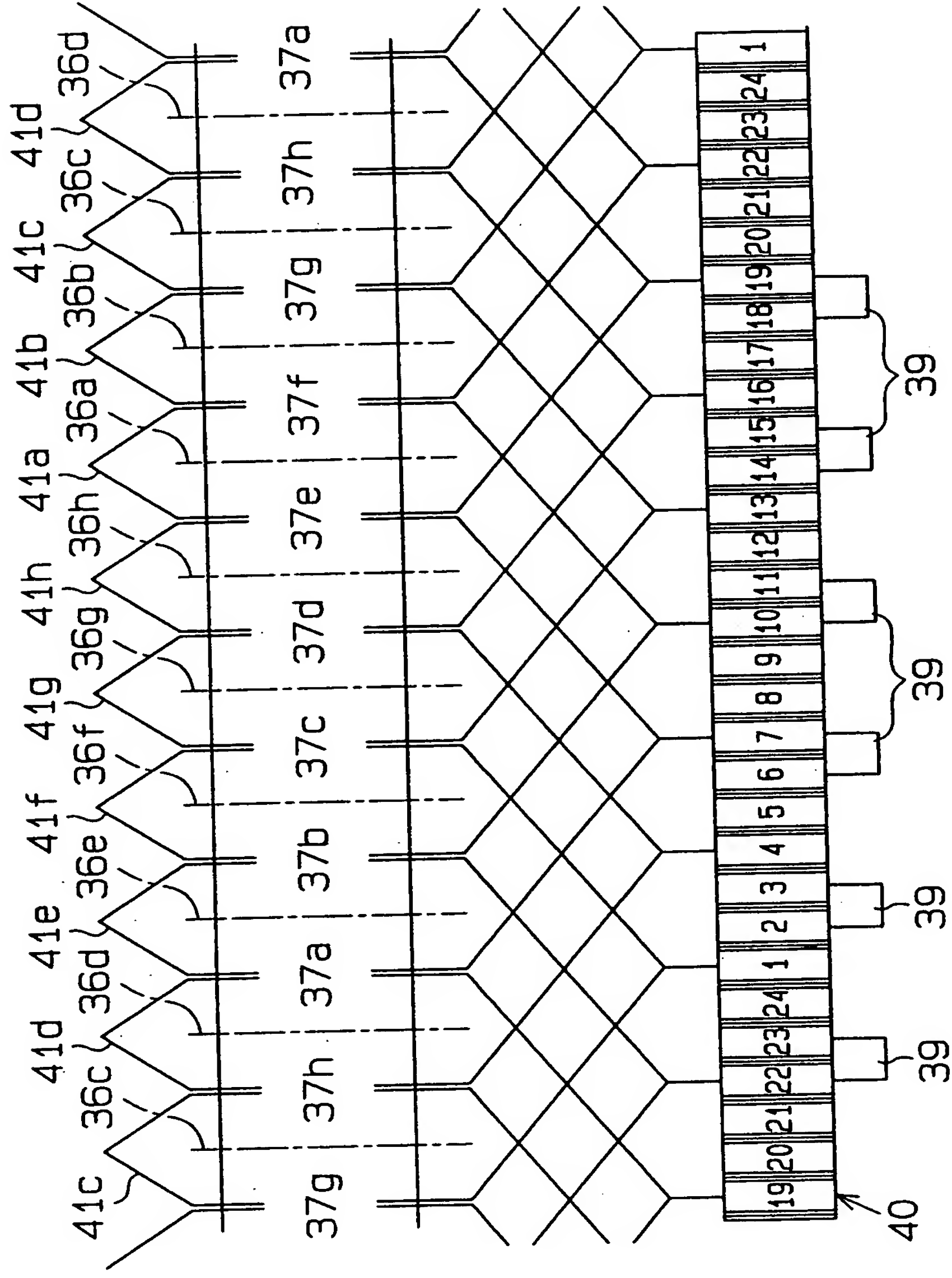
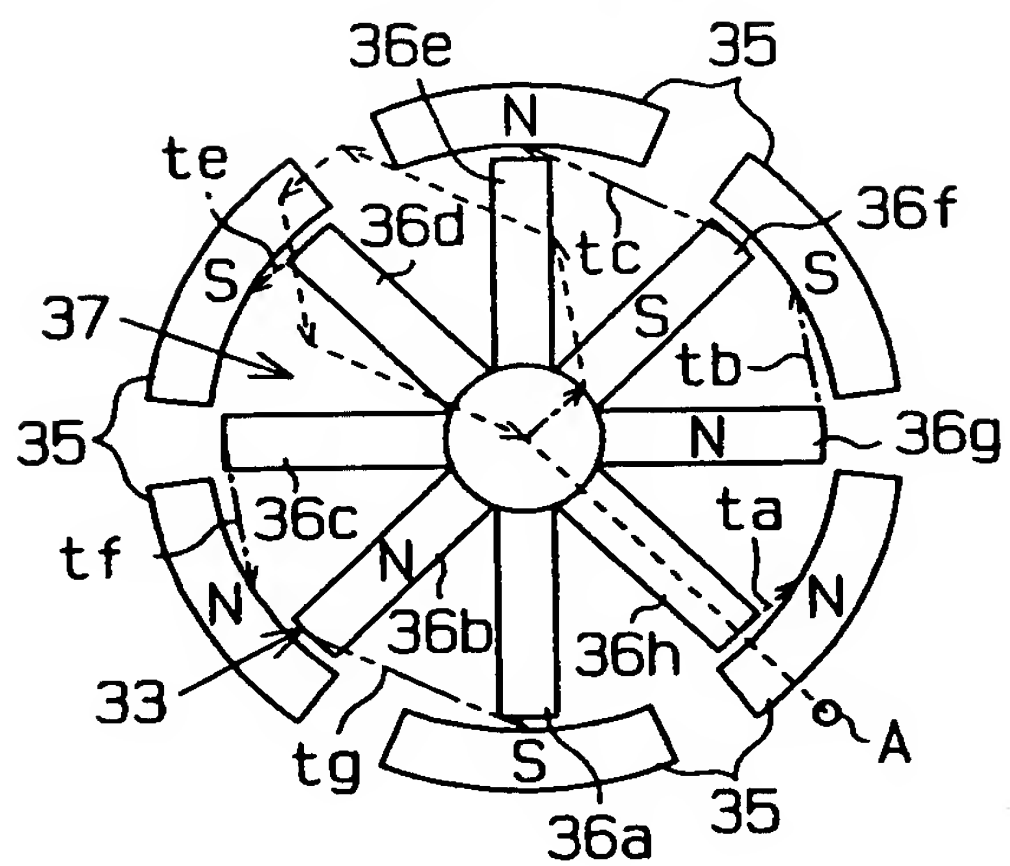


FIG. 3

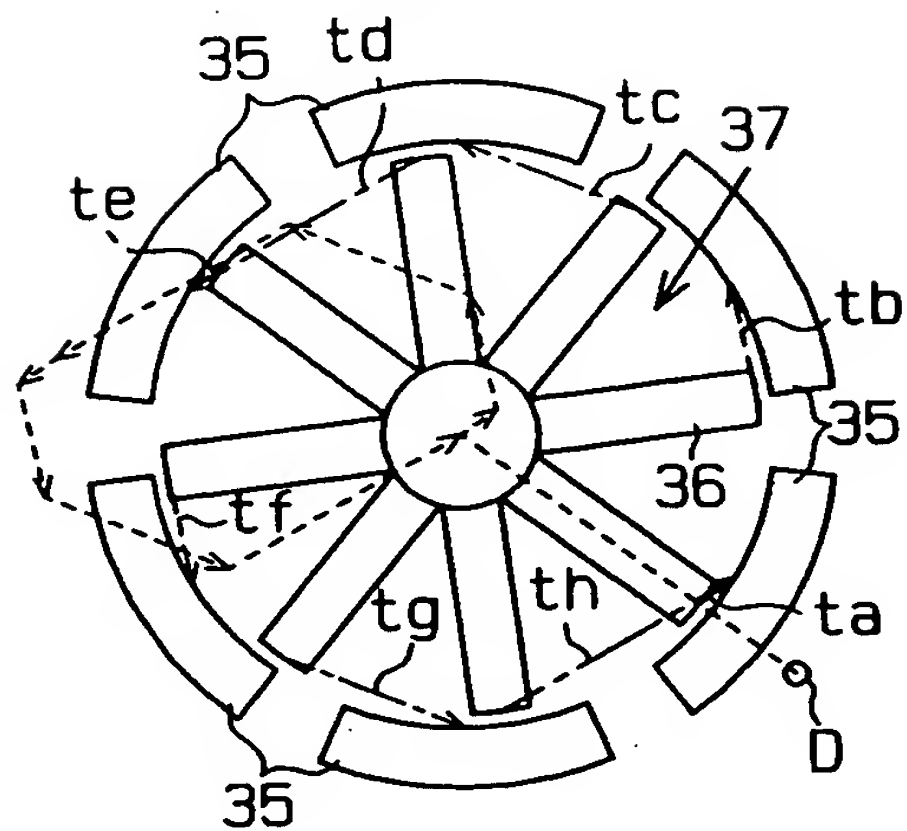
Fig. 4



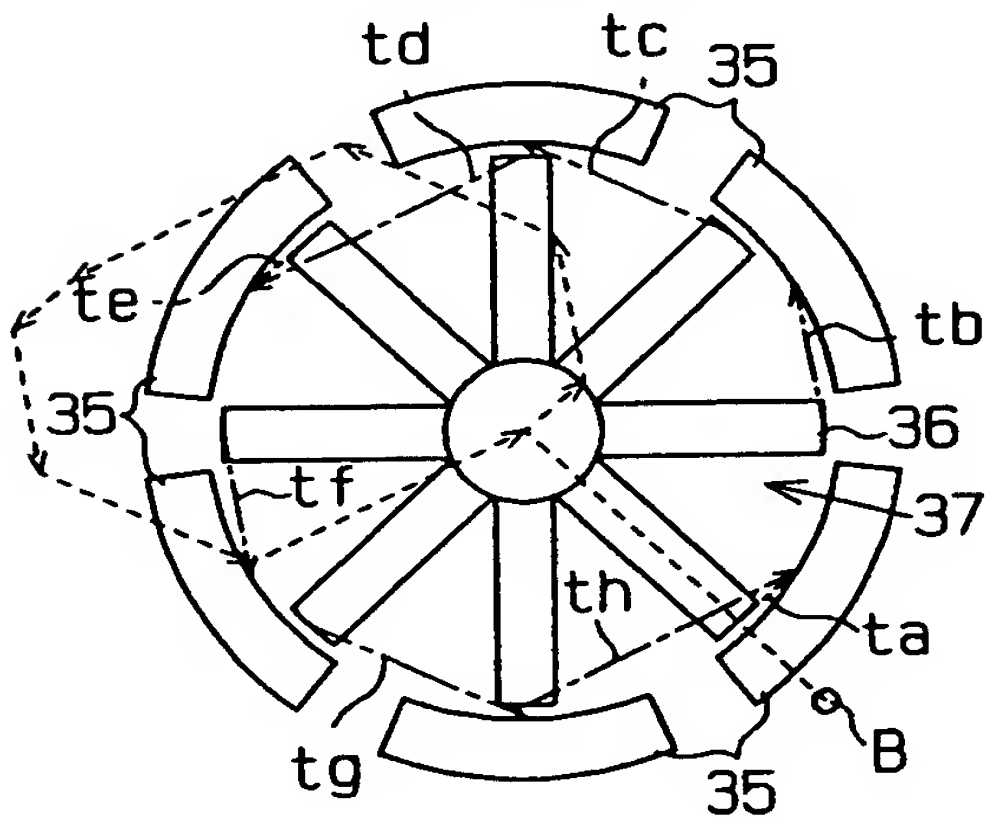
**Fig5 (a)**



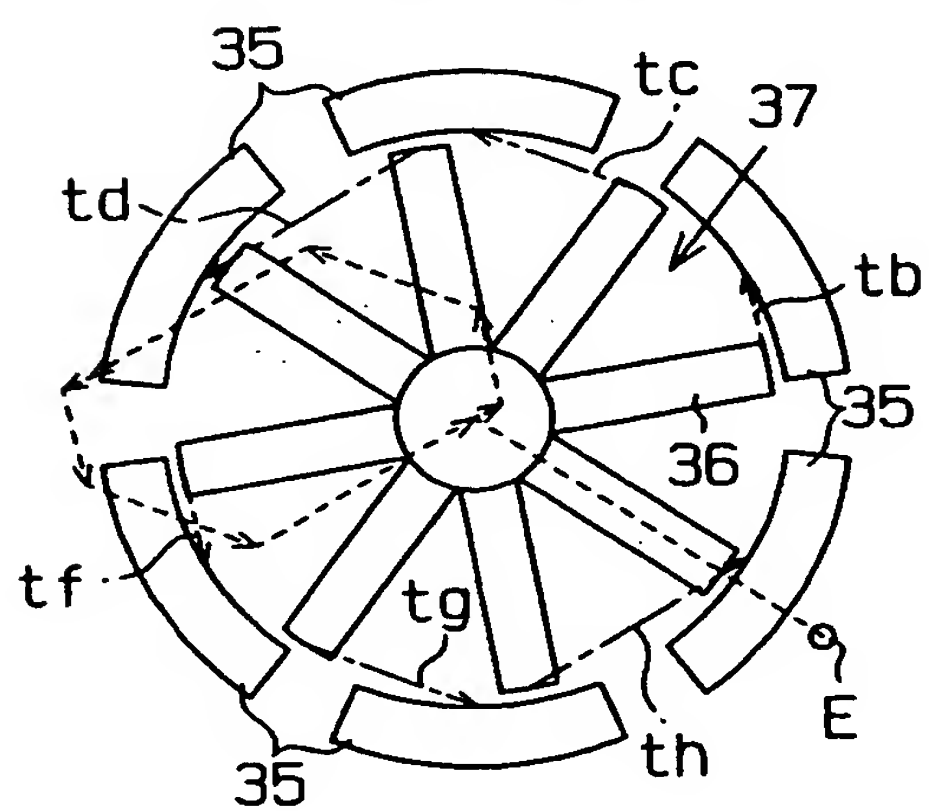
**Fig5 (d)**



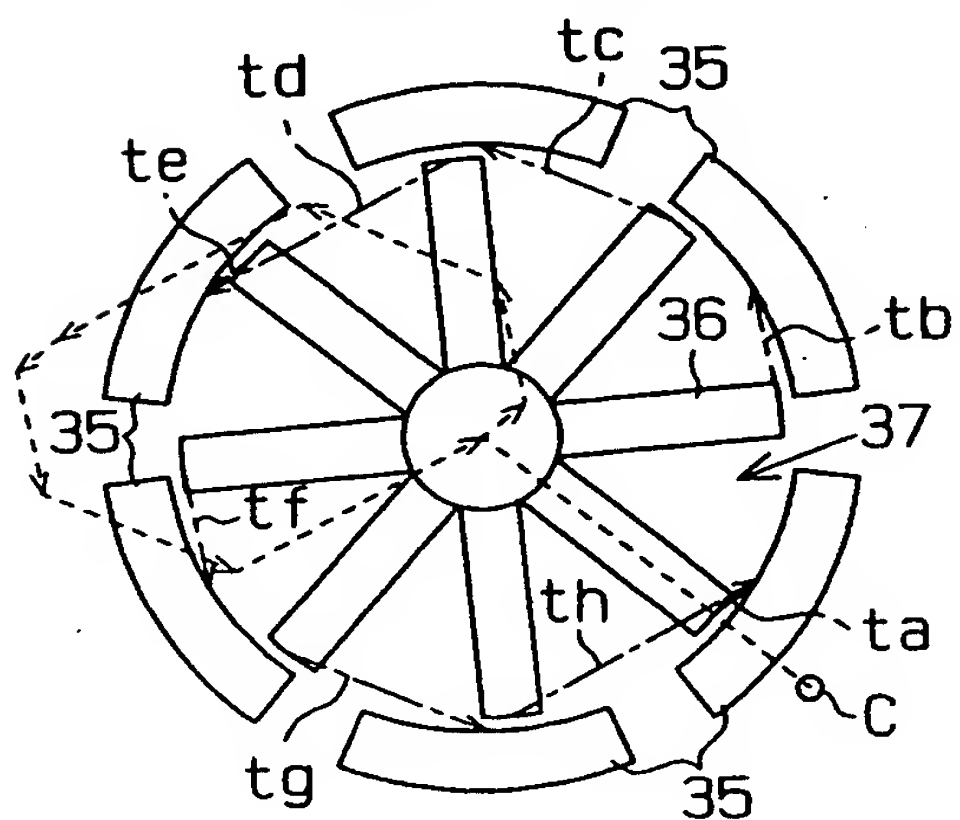
**Fig.5 (b)**



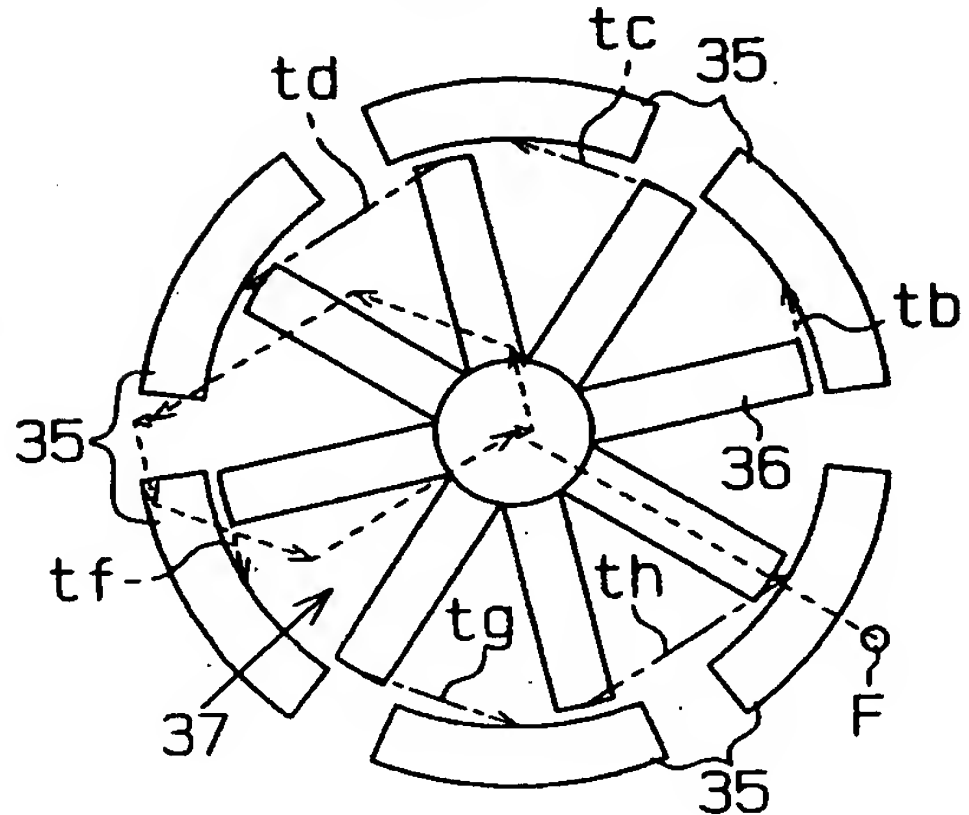
**Fig5 (e)**



**Fig.5 (c)**



**Fig5 (f)**



# Fig.6

			n							
			3	4	5	6	7	8	9	10
2m	2	K	0.866	0.707	0.588	0.500	0.434	0.383	0.342	0.309
	2	TF	0.866	0.000	0.363	0.000	0.241	0.000	0.182	0.000
	2	NF	0.500	0.000	1.118	0.000	0.945	0.000	1.032	0.000
	2	H	6	4	10	6	14	8	18	10
	4	K	0.866		0.951	0.866	0.782	0.707	0.643	0.588
	4	TF	0.866		1.176	0.000	0.386	0.000	0.446	0.000
	4	NF	0.500		0.000	0.000	1.247	0.000	1.347	0.000
	4	H	12		20	12	28	8	36	20
	6	K		0.707	0.951		0.975	0.924	0.866	0.809
	6	TF		0.000	1.176		1.564	0.000	0.000	0.000
	6	NF		0.000	0.000		0.445	0.000	0.000	0.000
	6	H		12	30		42	24	18	30
	8	K			0.588	0.866	0.975		0.985	0.951
	8	TF			0.363	0.000	1.564		1.970	0.000
	8	NF			1.118	0.000	0.445		0.879	0.000
	8	H			40	24	56		72	40
	10	K				0.500	0.782	0.924	0.985	
	10	TF				0.000	0.386	0.000	1.970	
	10	NF				0.000	1.247	0.000	0.879	
	10	H				30	70	40	90	
	12	K					0.434	0.707	0.866	0.951
	12	TF					0.241	0.000	0.000	0.000
	12	NF					0.945	0.000	0.000	0.000
	12	H					84	24	36	60
	14	K	0.866					0.383	0.643	0.809
	14	TF	0.866					0.000	0.446	0.000
	14	NF	0.500					0.000	1.347	0.000
	14	H	42					56	126	70
	16	K	0.866						0.342	0.588
	16	TF	0.866						0.182	0.000
	16	NF	0.500						1.032	0.000
	16	H	48						144	80
	18	K		0.707						0.309
	18	TF		0.000						0.000
	18	NF		0.000						0.000
	18	H		36						90
	20	K								
	20	TF								
	20	NF								
	20	H								
	22	K		0.707	0.588					
	22	TF		0.000	0.363					
	22	NF		0.000	1.118					
	22	H		44	110					
	24	K			0.951					
	24	TF			1.176					
	24	NF			0.000					
	24	H			120					

Radial Force Exists
  Nonfunctioning as Motor

100526007  
 00000000  
 00000000  
 00000000  
 00000000



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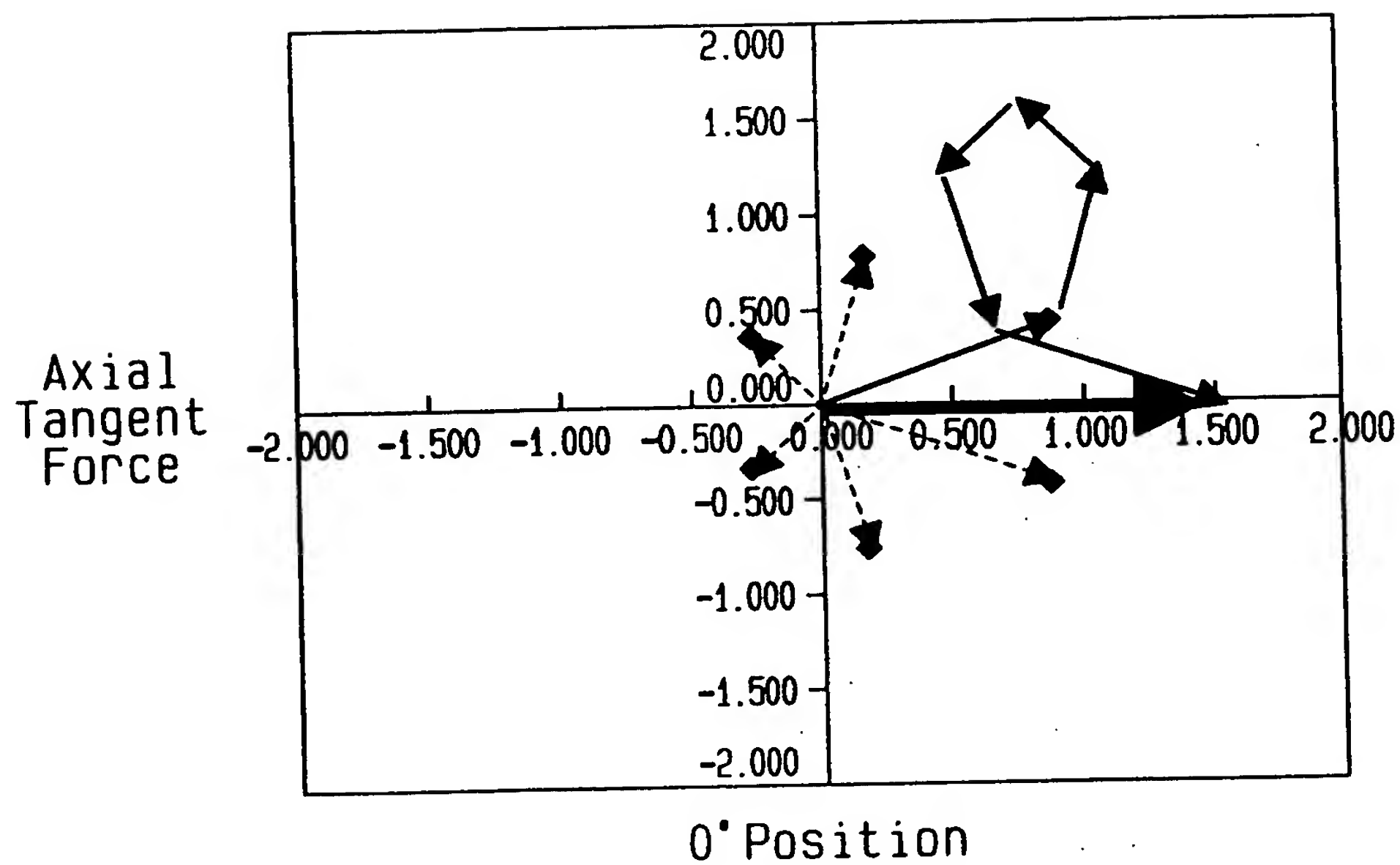
 Radial Force Exists       Nonfunctioning as Motor

2m

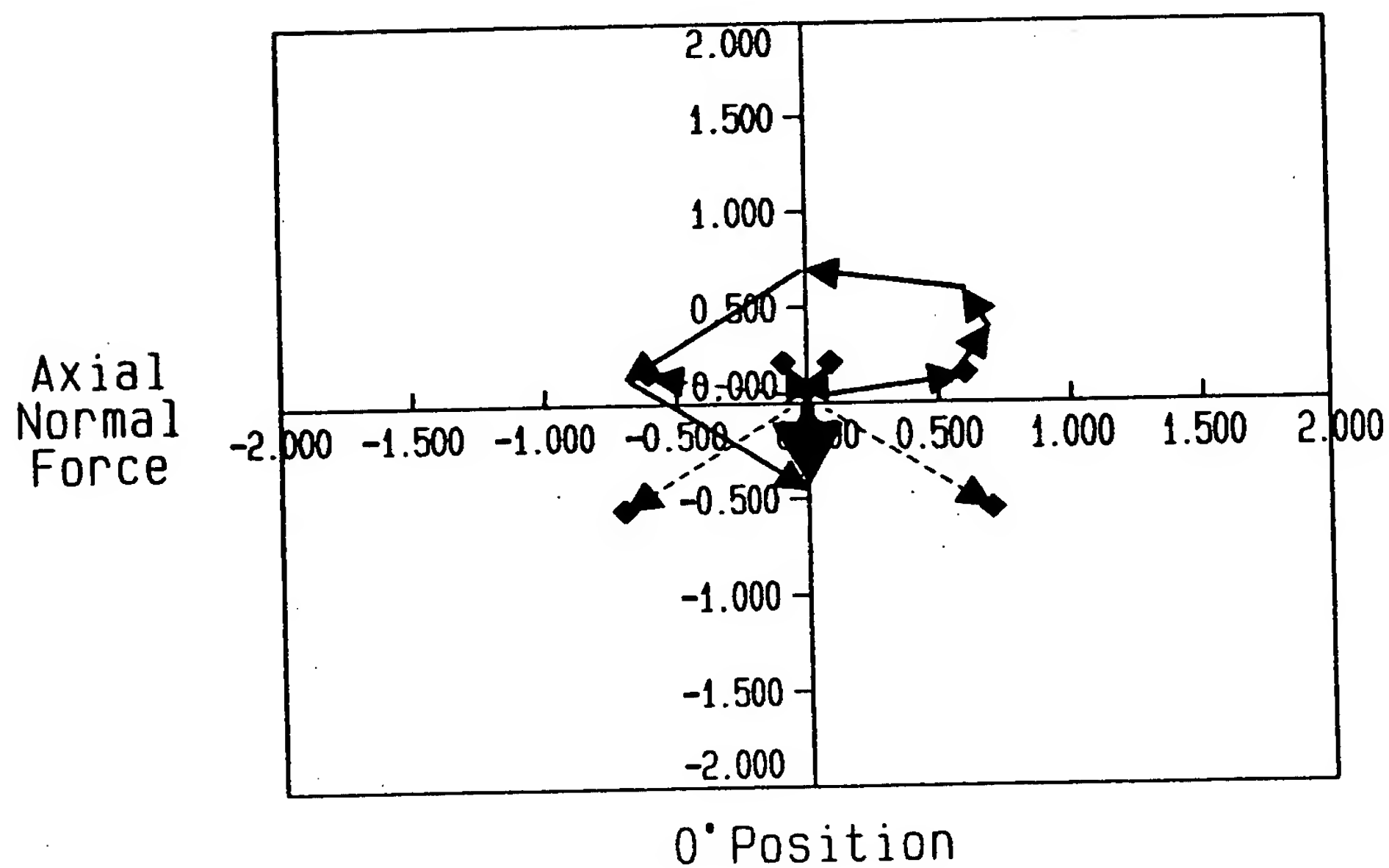




# Fig. 9 (a)

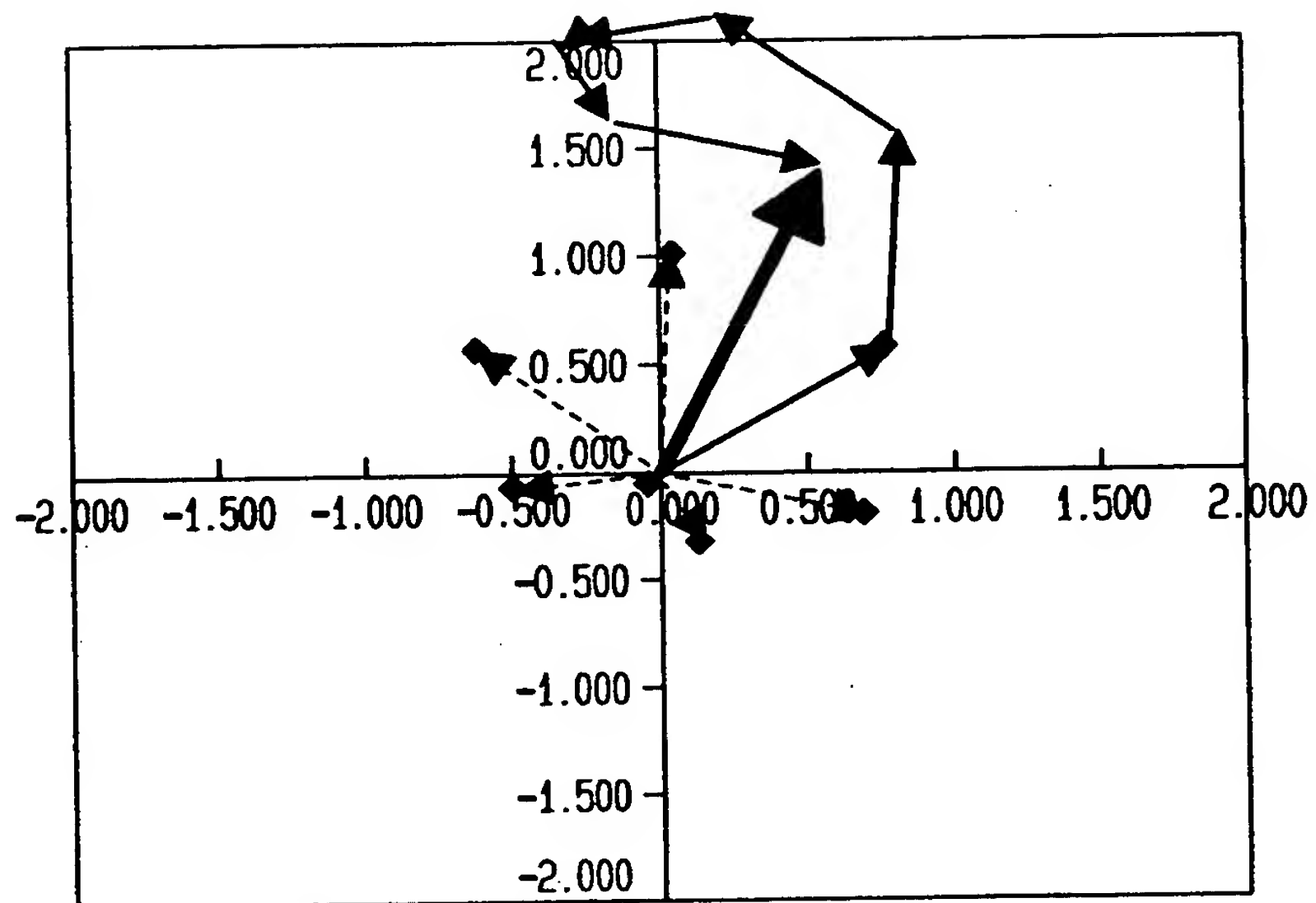


# Fig. 9 (b)



**Fig.10(a)**

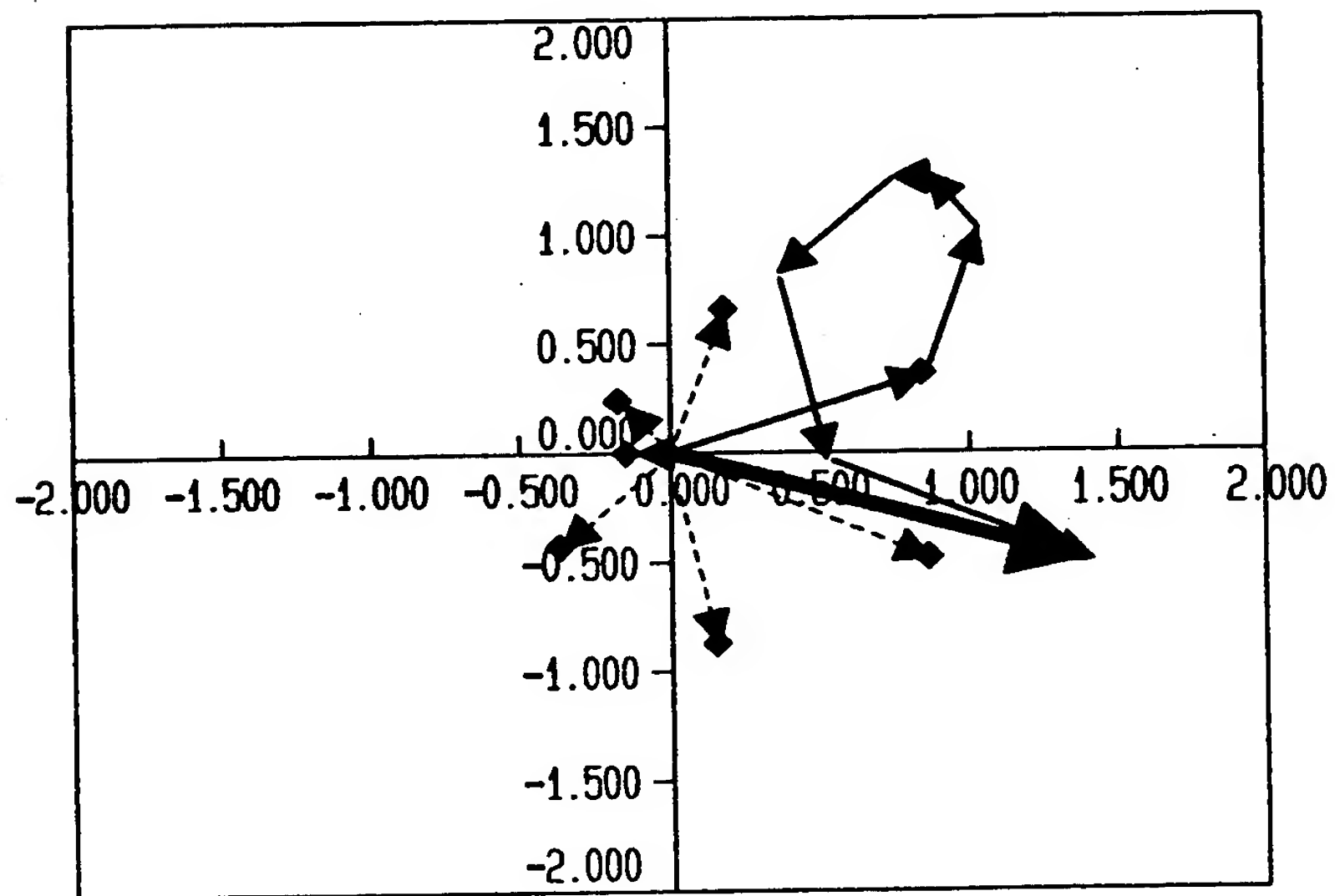
Axial  
Tangent  
Force



10° Position

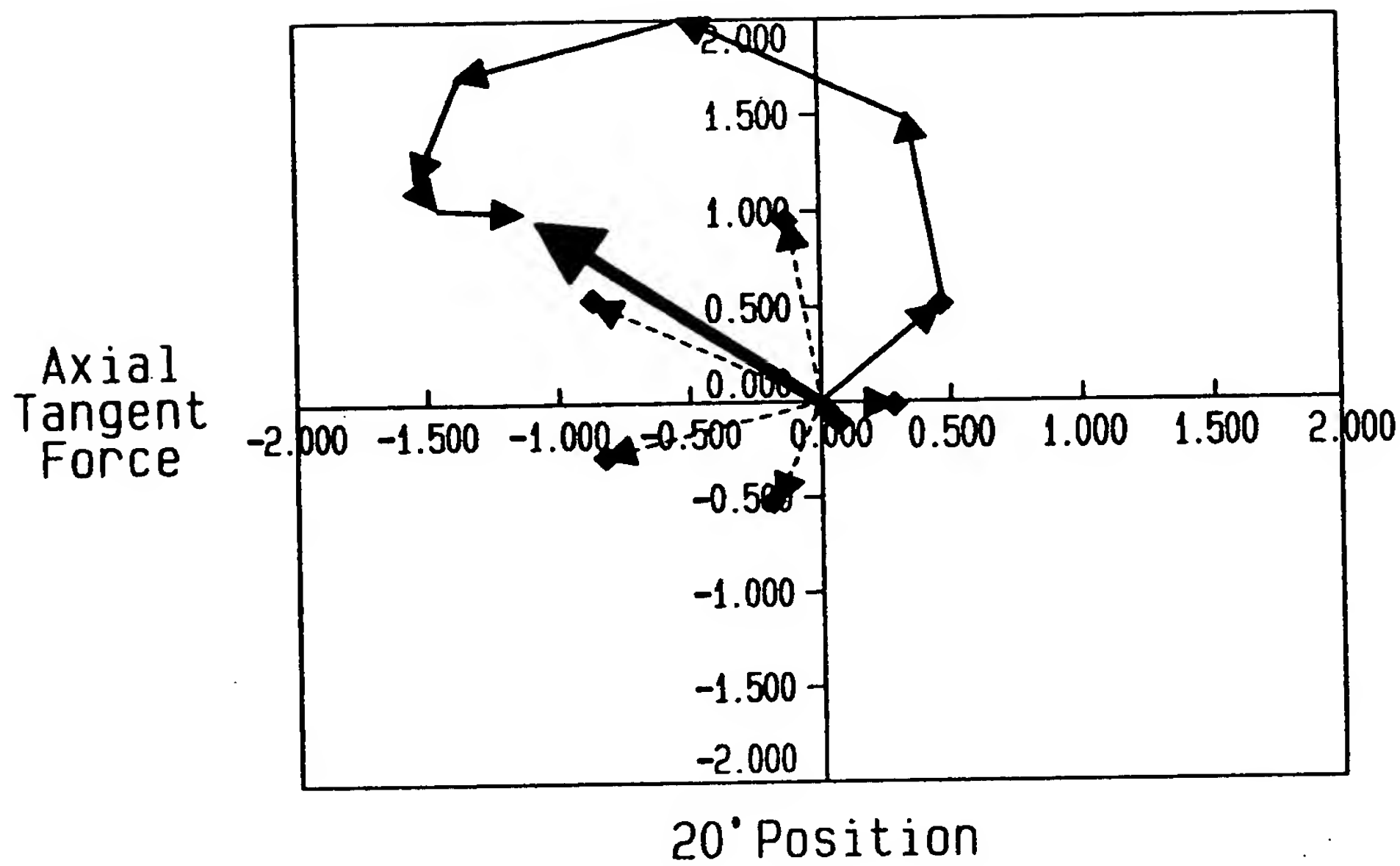
**Fig.10(b)**

Axial  
Normal  
Force

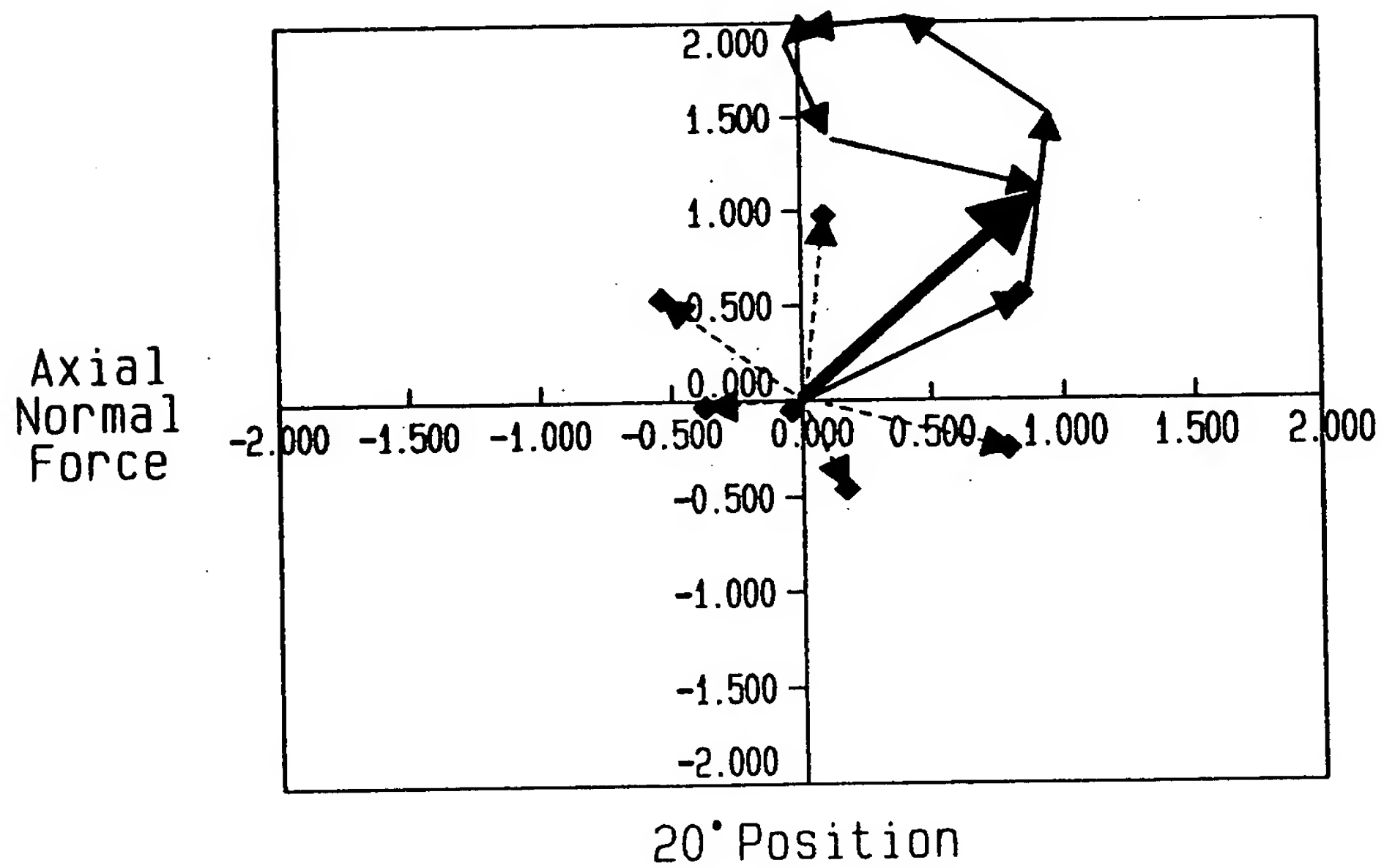


10° Position

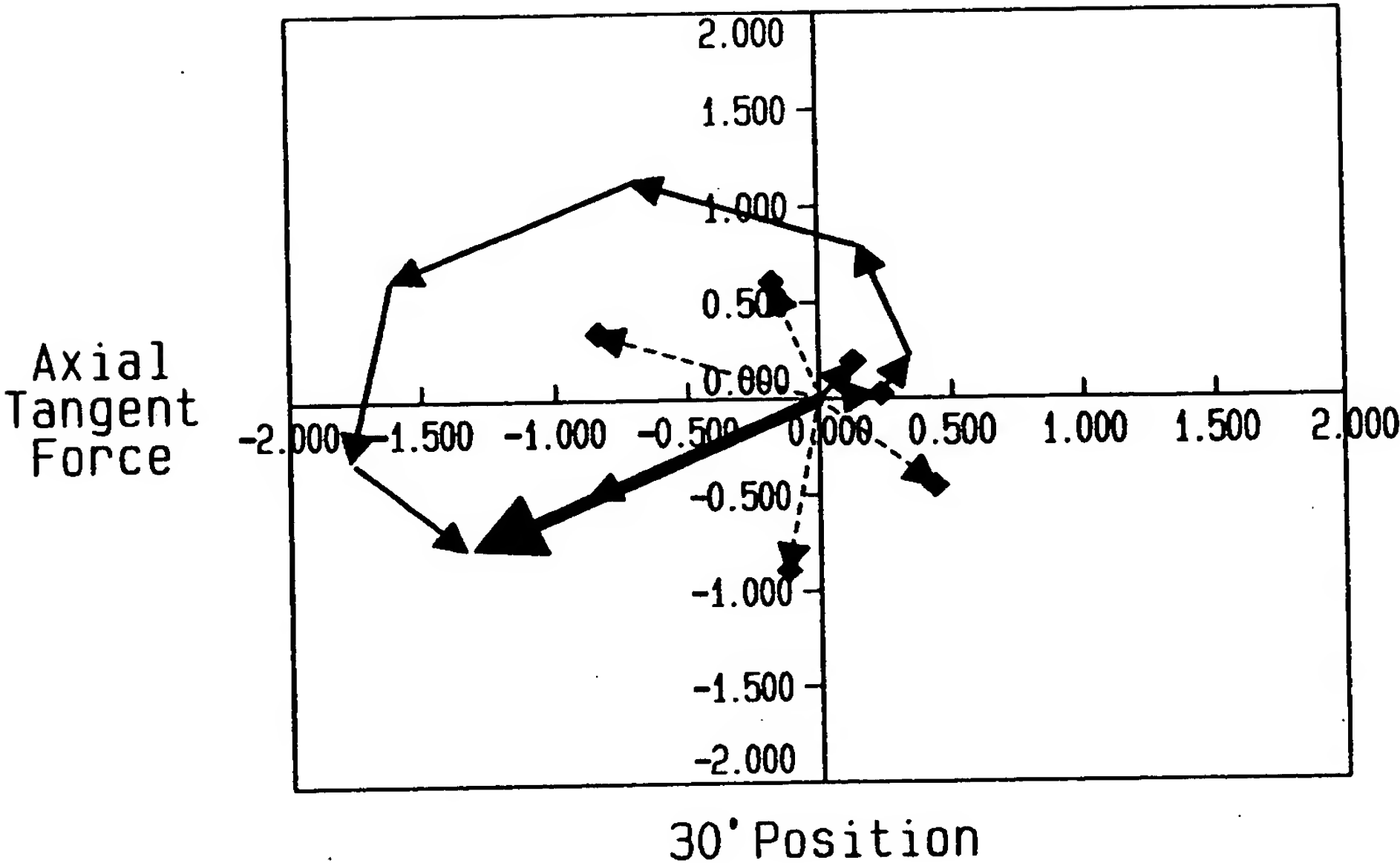
**Fig.11 (a)**



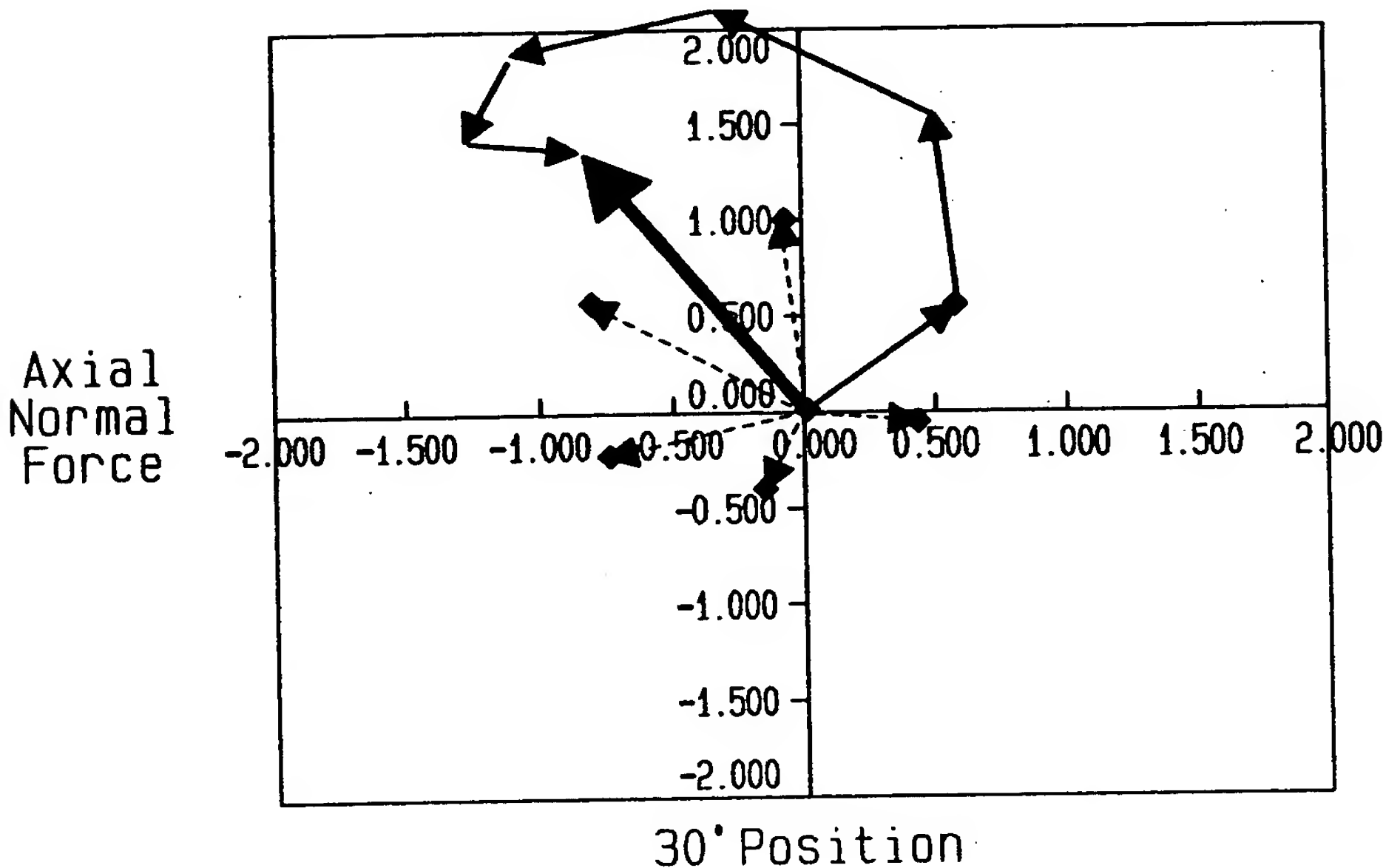
**Fig.11 (b)**



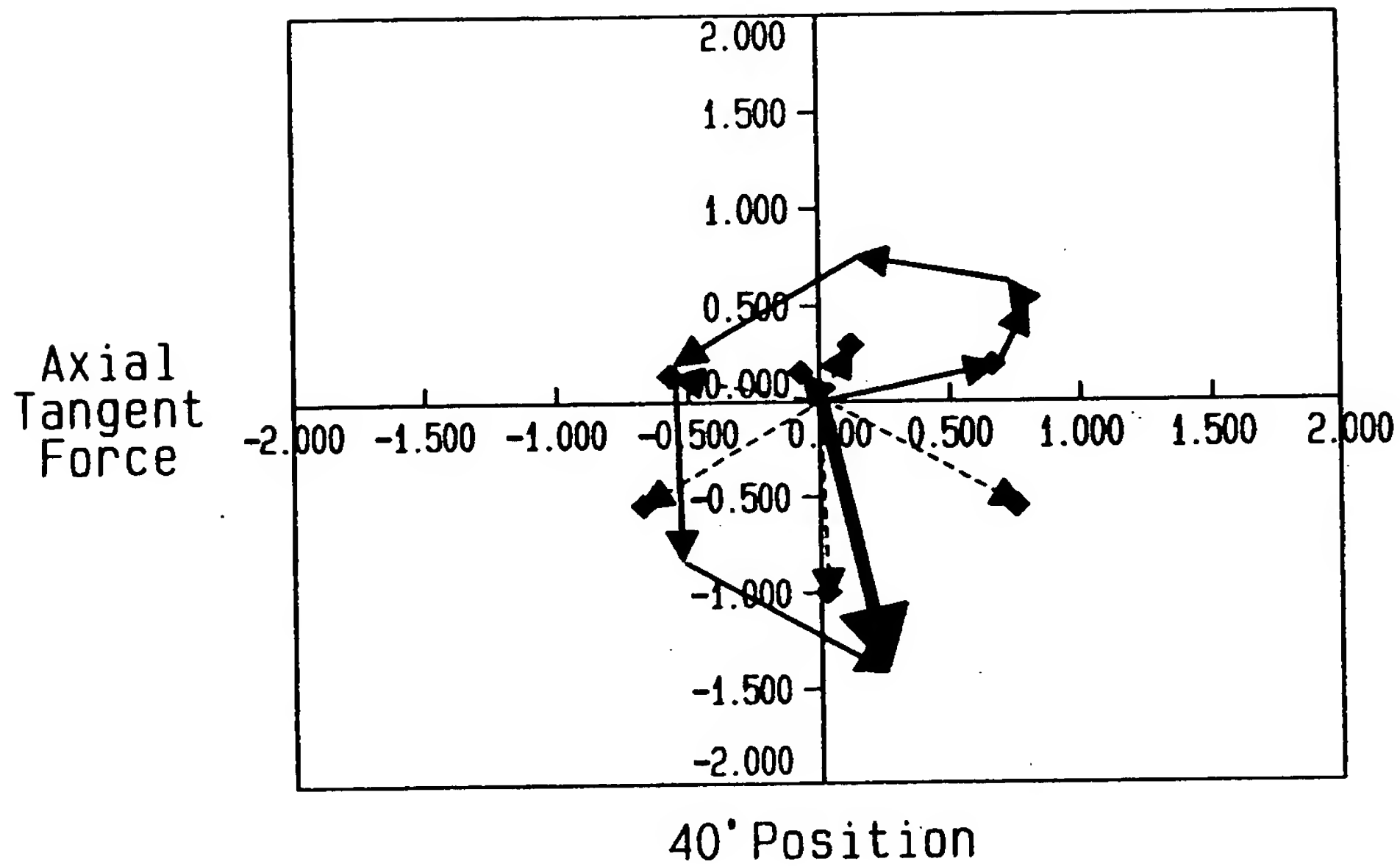
**Fig.12(a)**



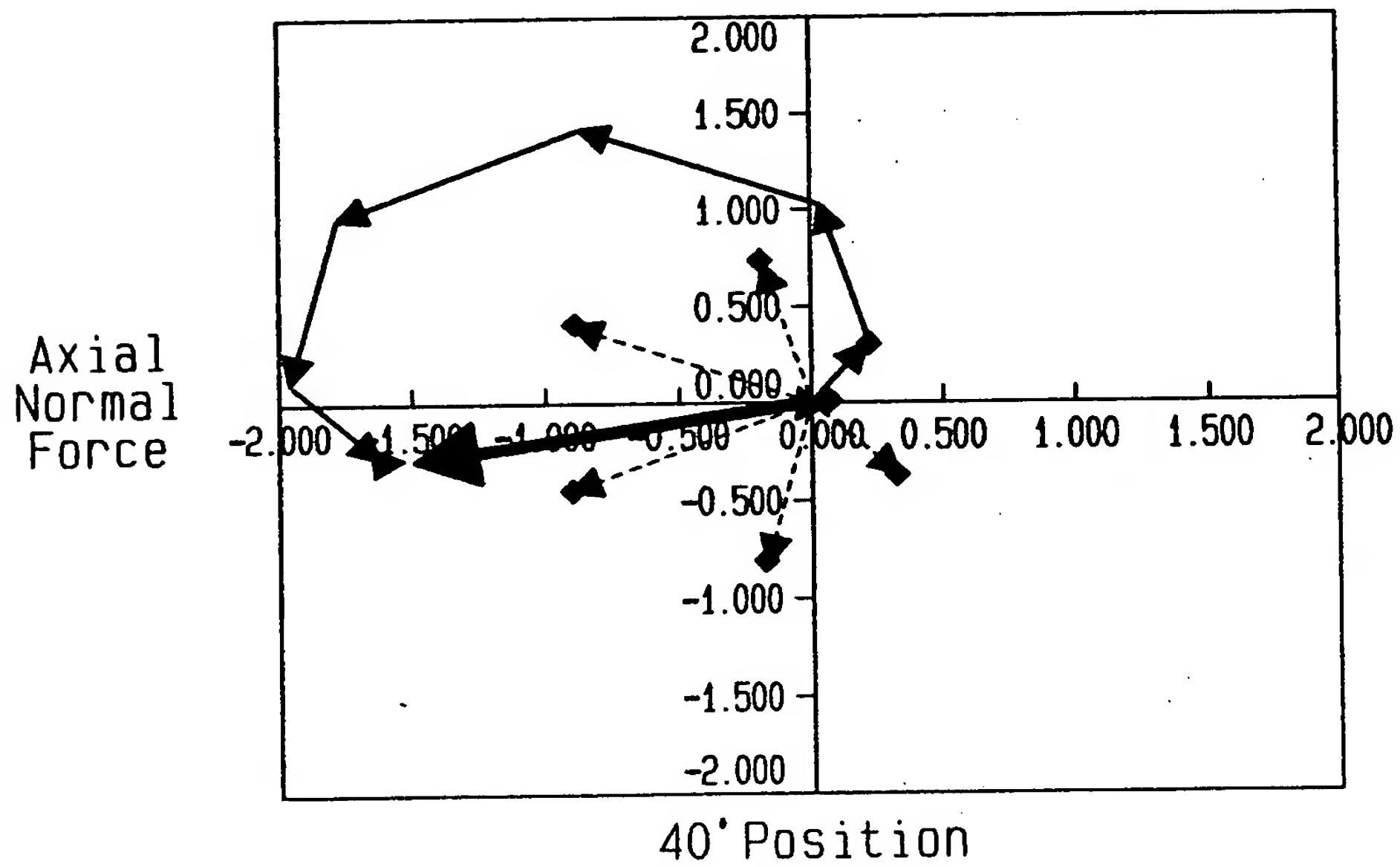
**Fig.12(b)**



**Fig.13(a)**

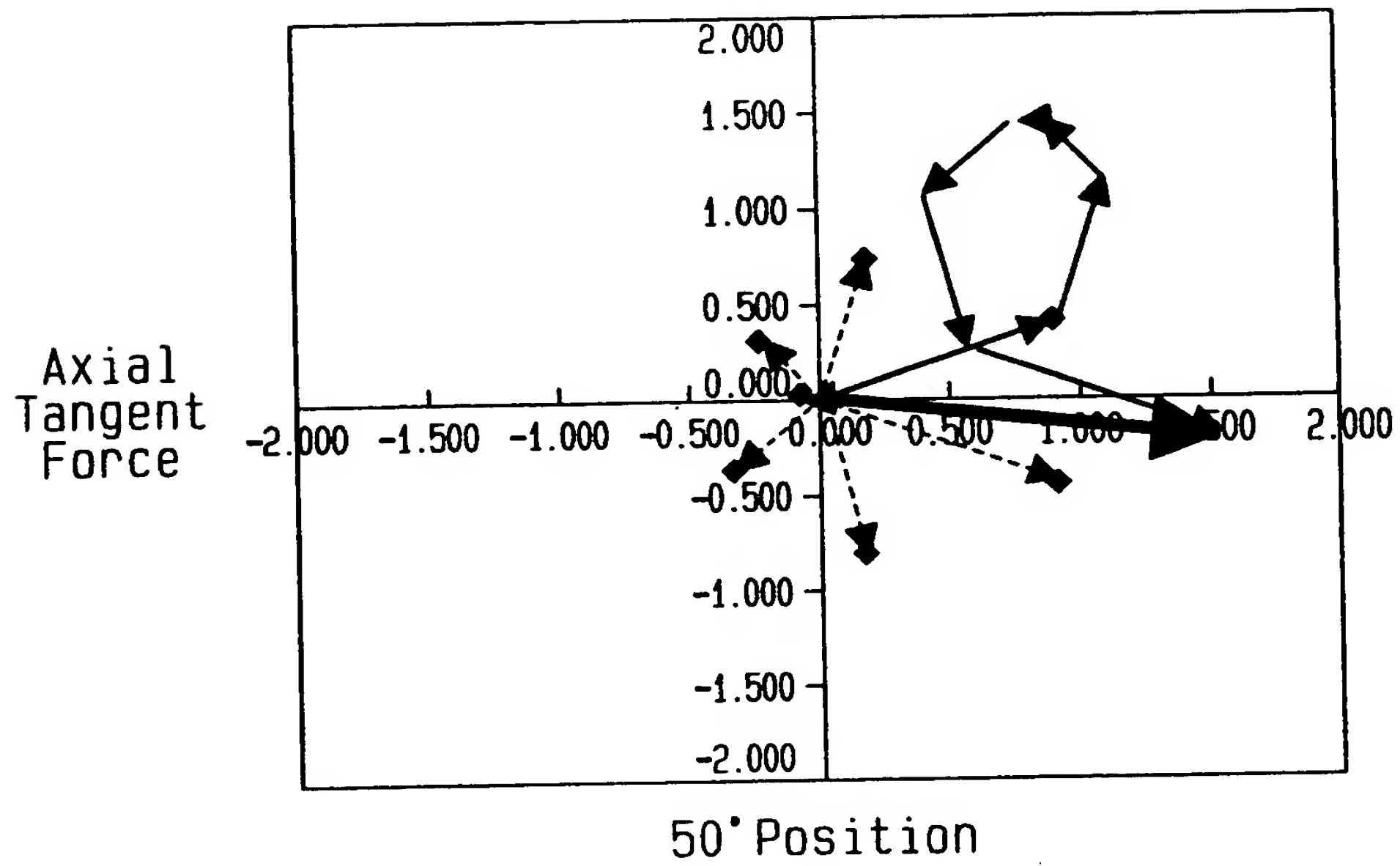


**Fig.13(b)**

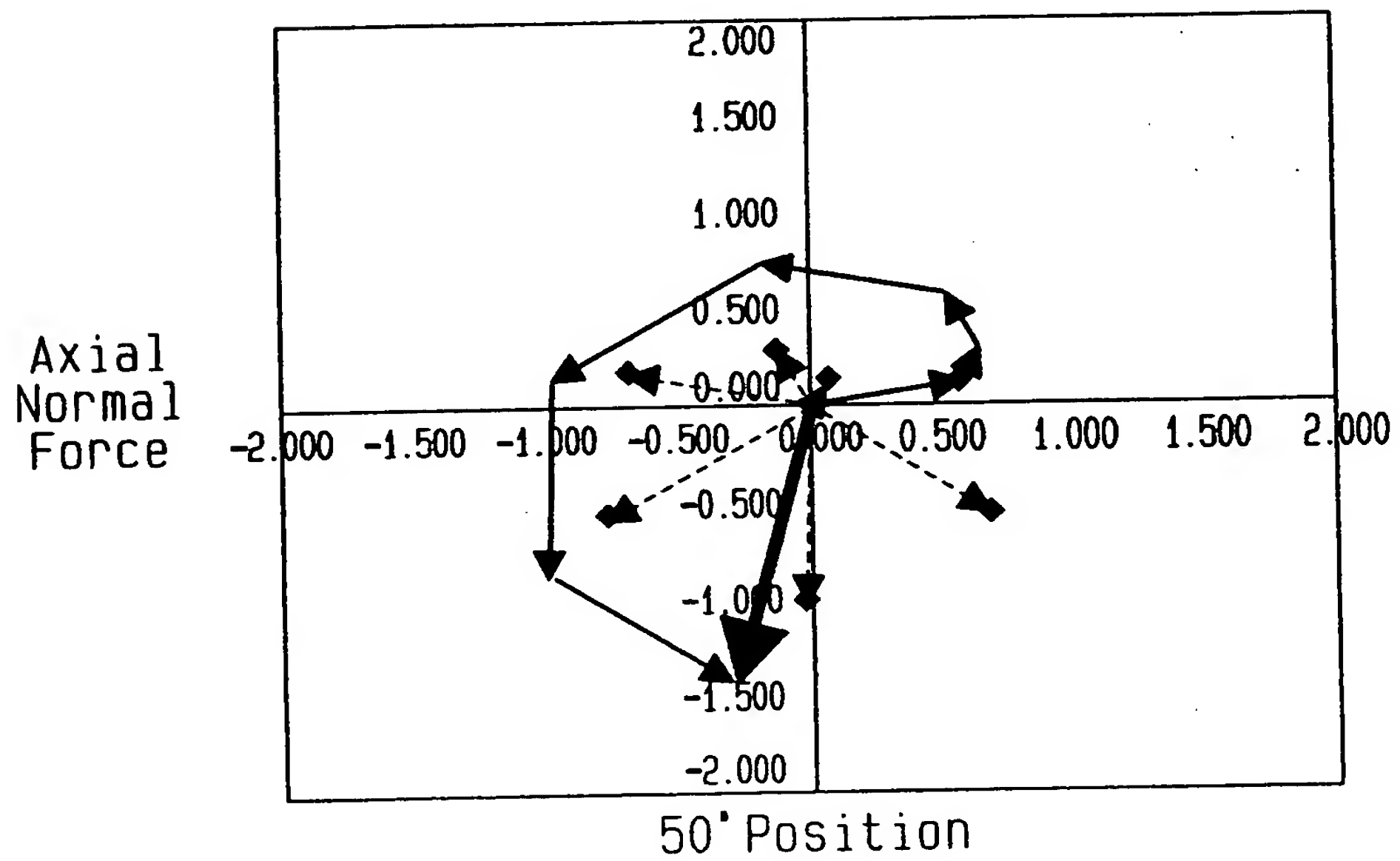




**Fig.14(a)**

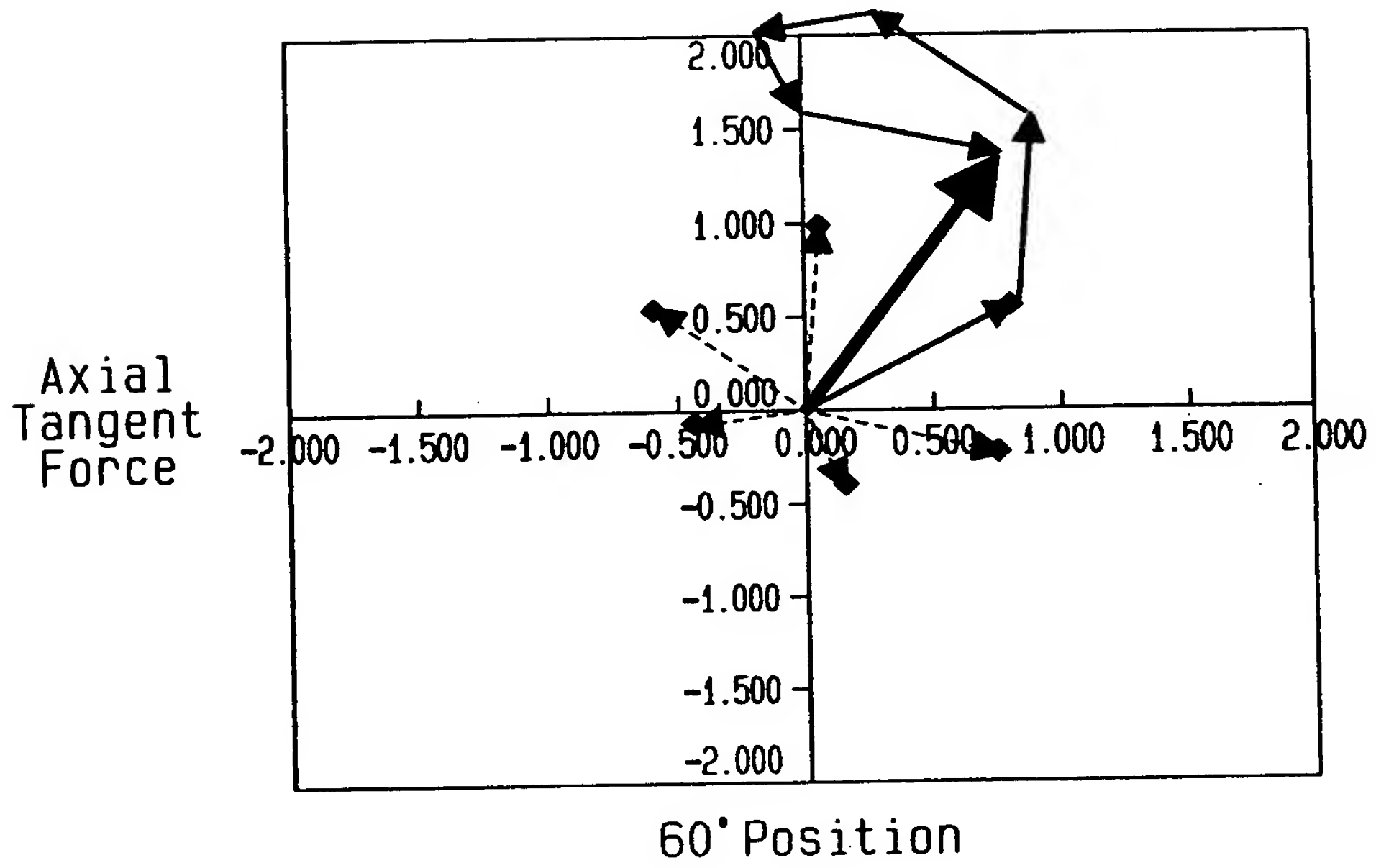


**Fig.14(b)**

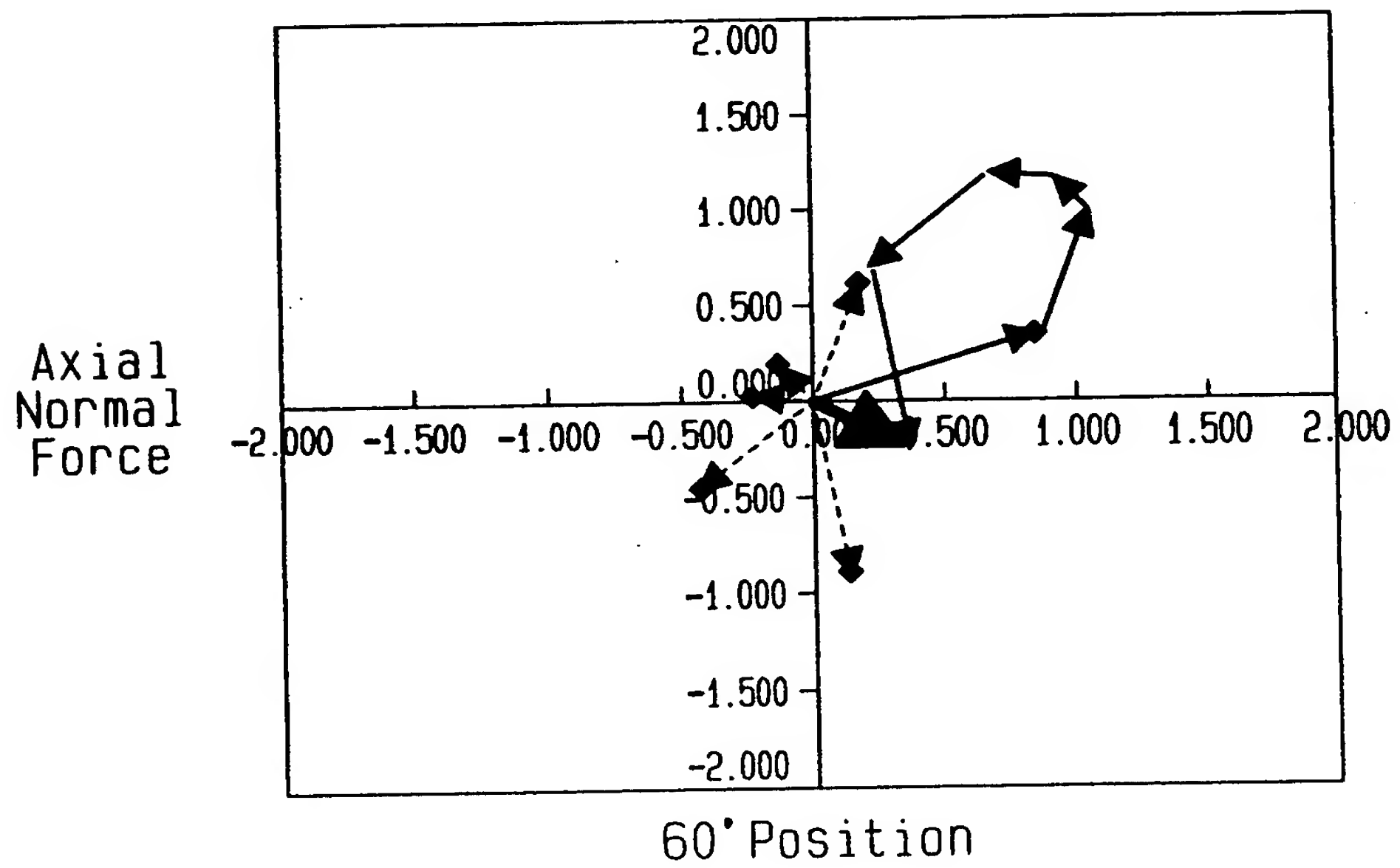


100703-0100  
20020-92000

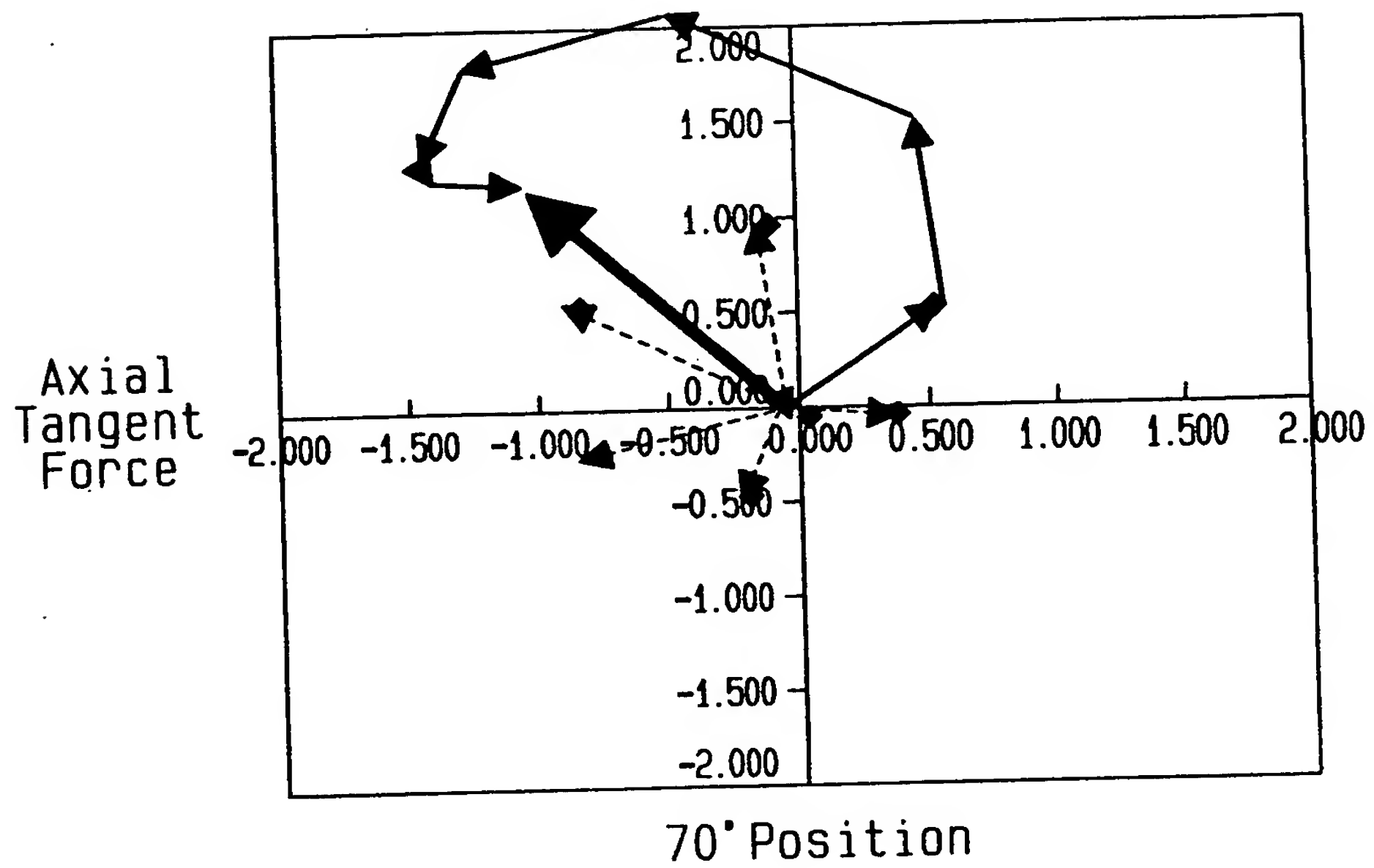
**Fig.15(a)**



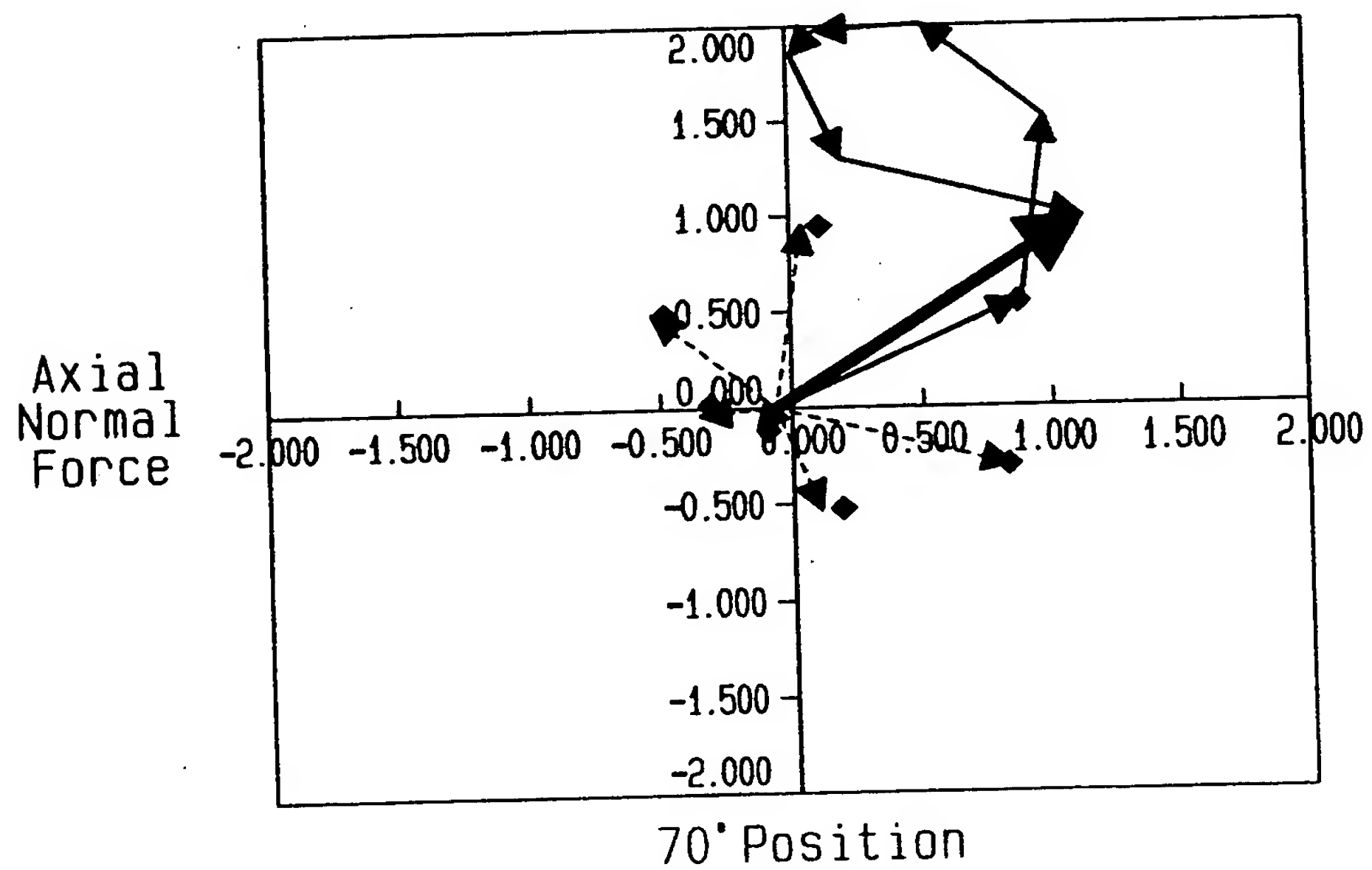
**Fig.15(b)**



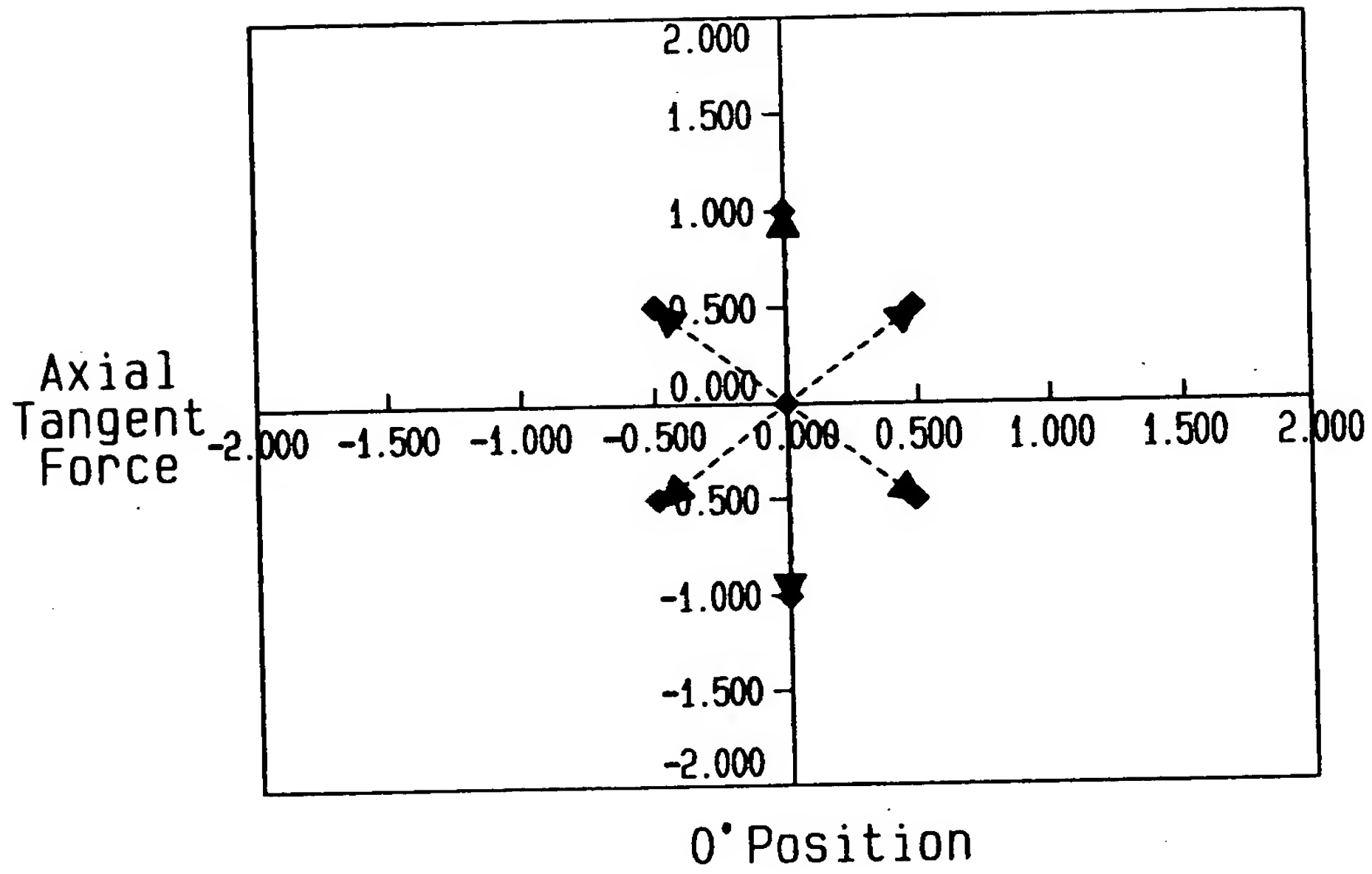
**Fig.16(a)**



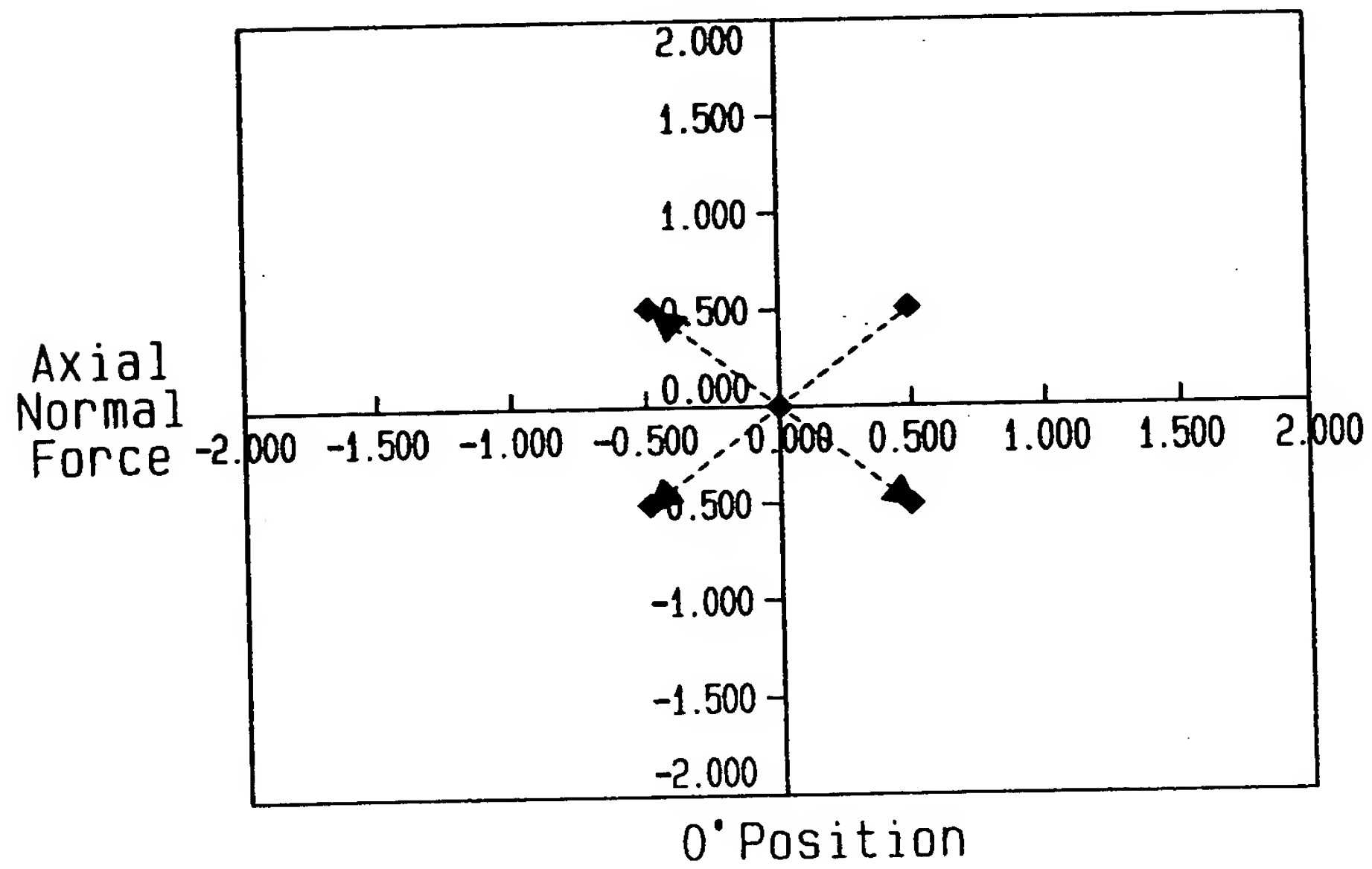
**Fig.16(b)**



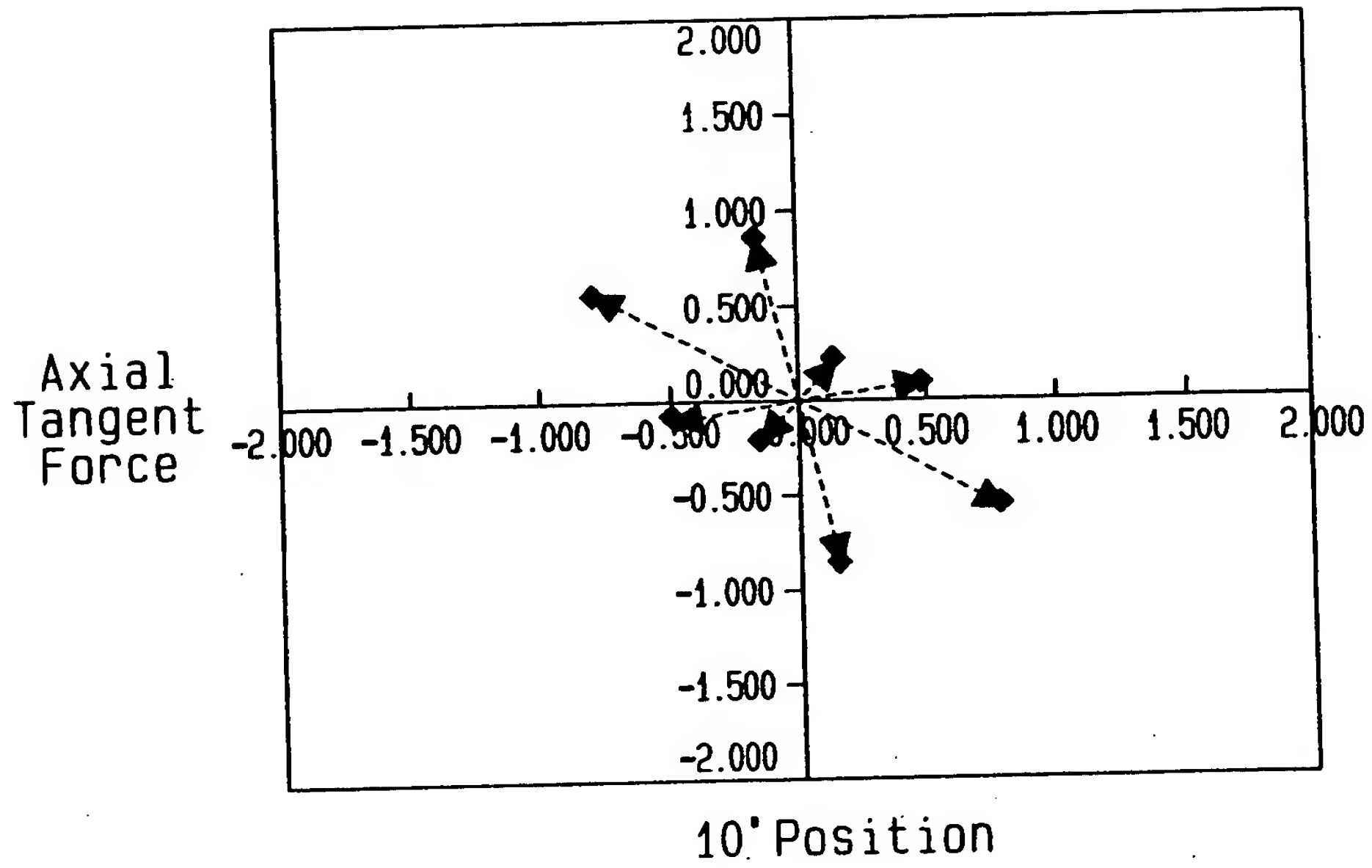
**Fig.17 (a)**



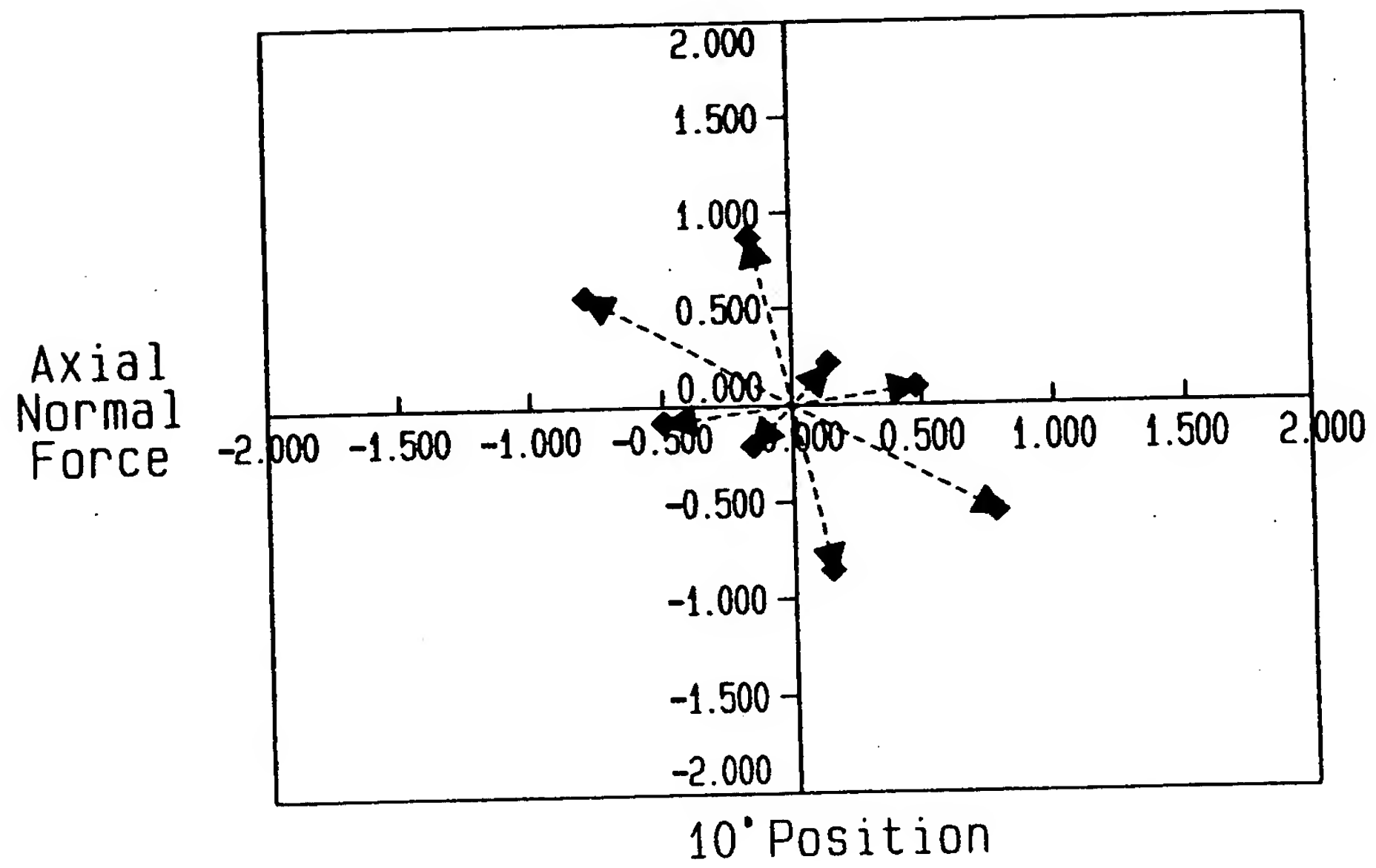
**Fig.17 (b)**



**Fig.18(a)**

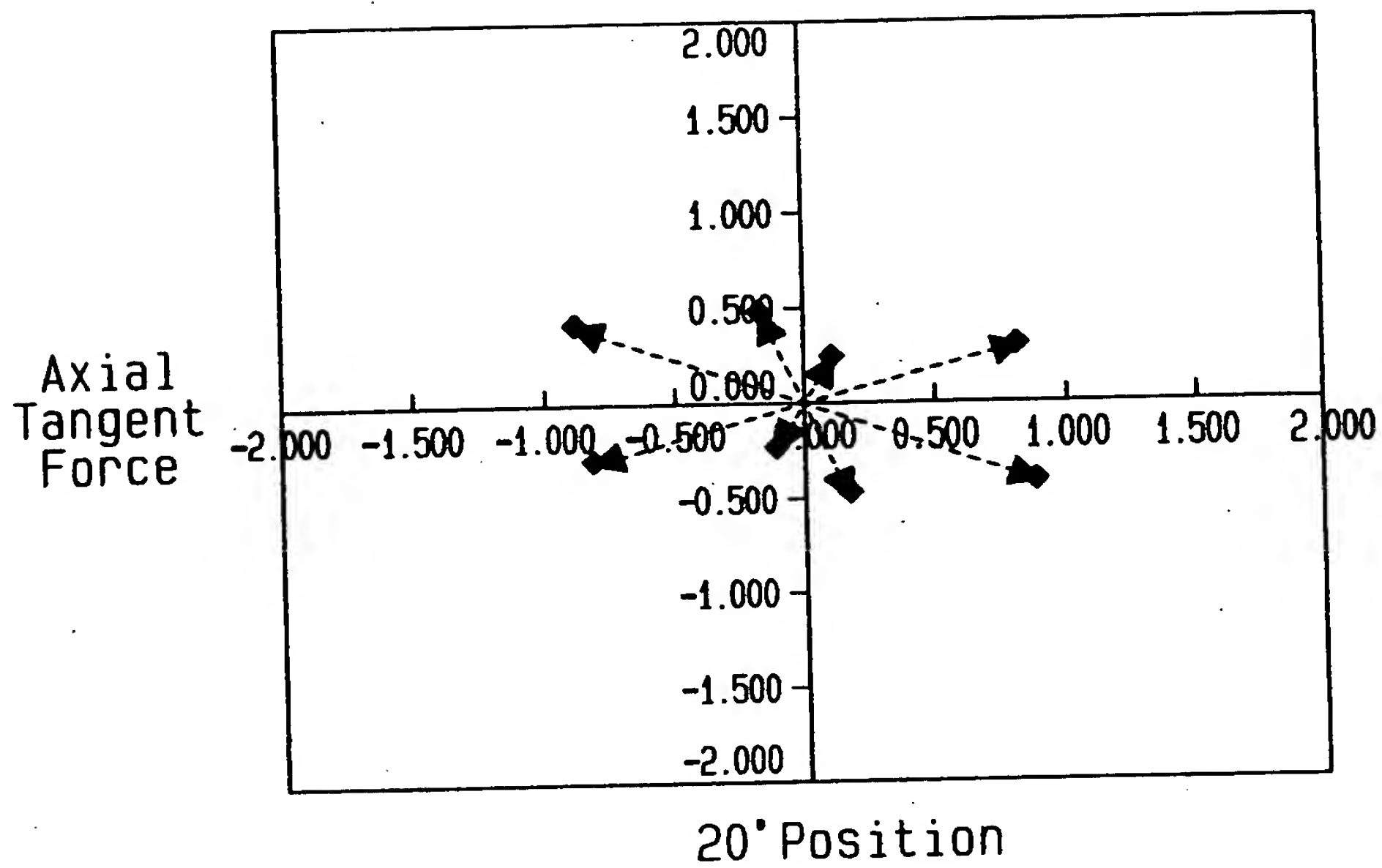


**Fig.18(b)**

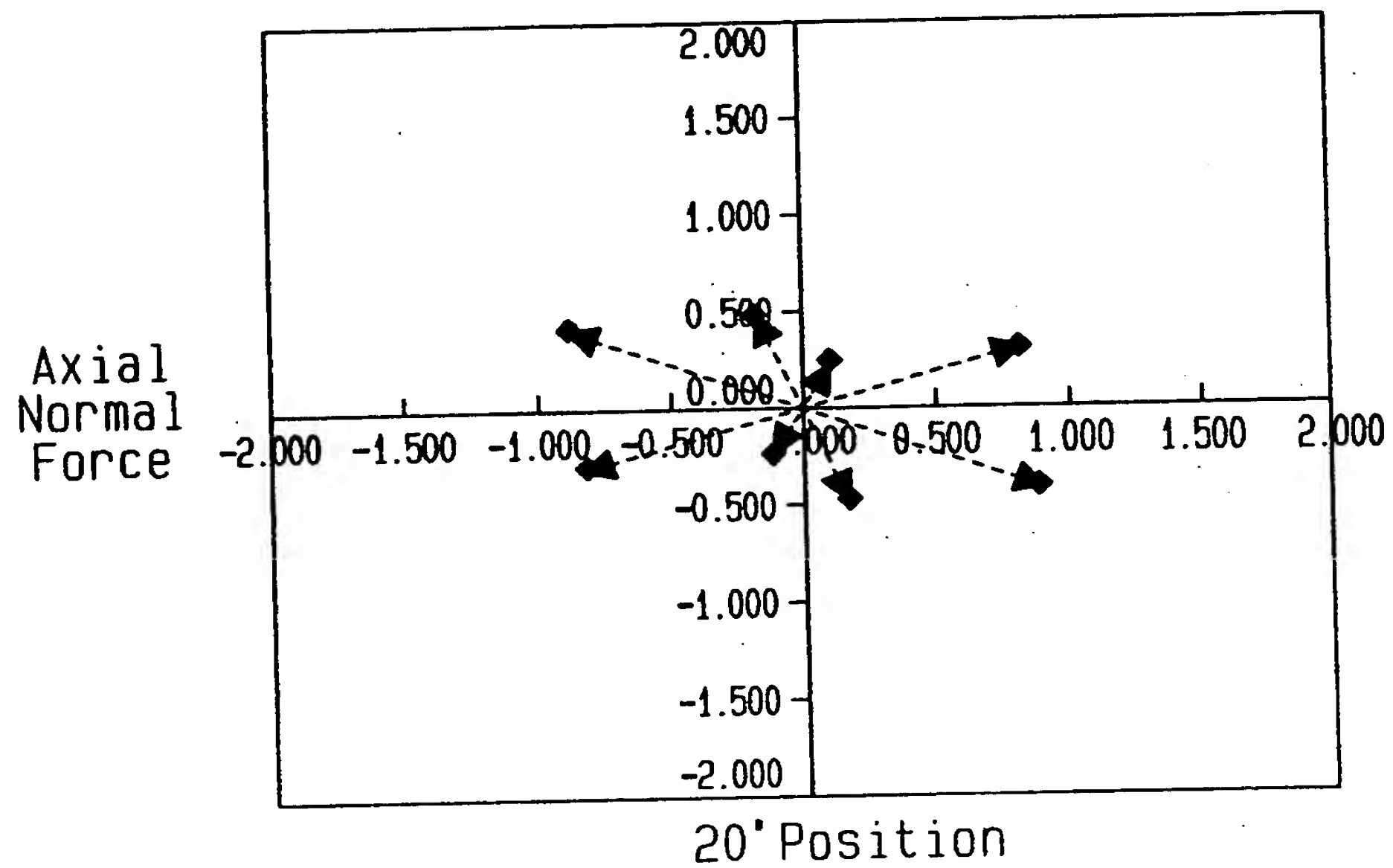




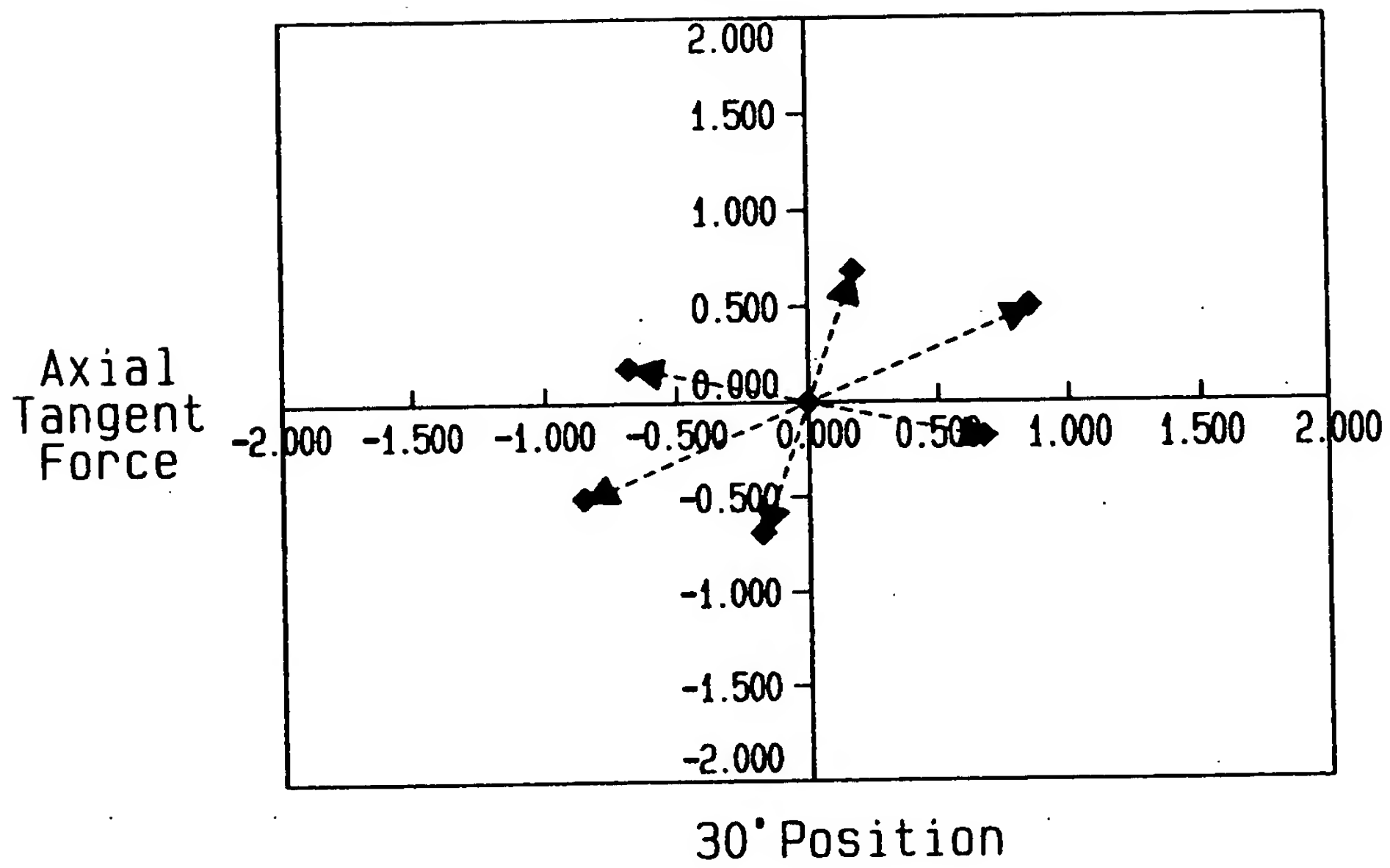
**Fig.19(a)**



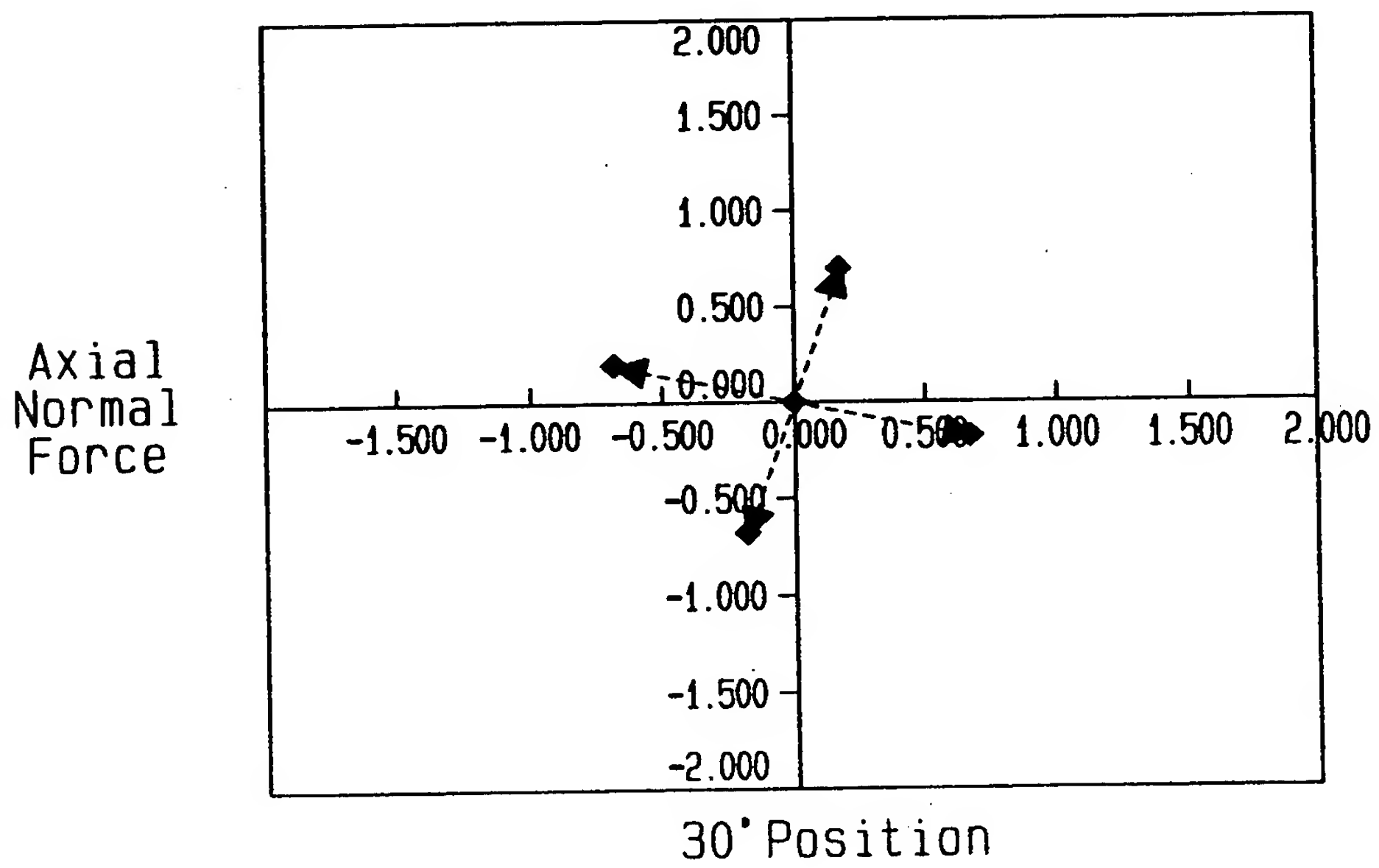
**Fig.19(b)**



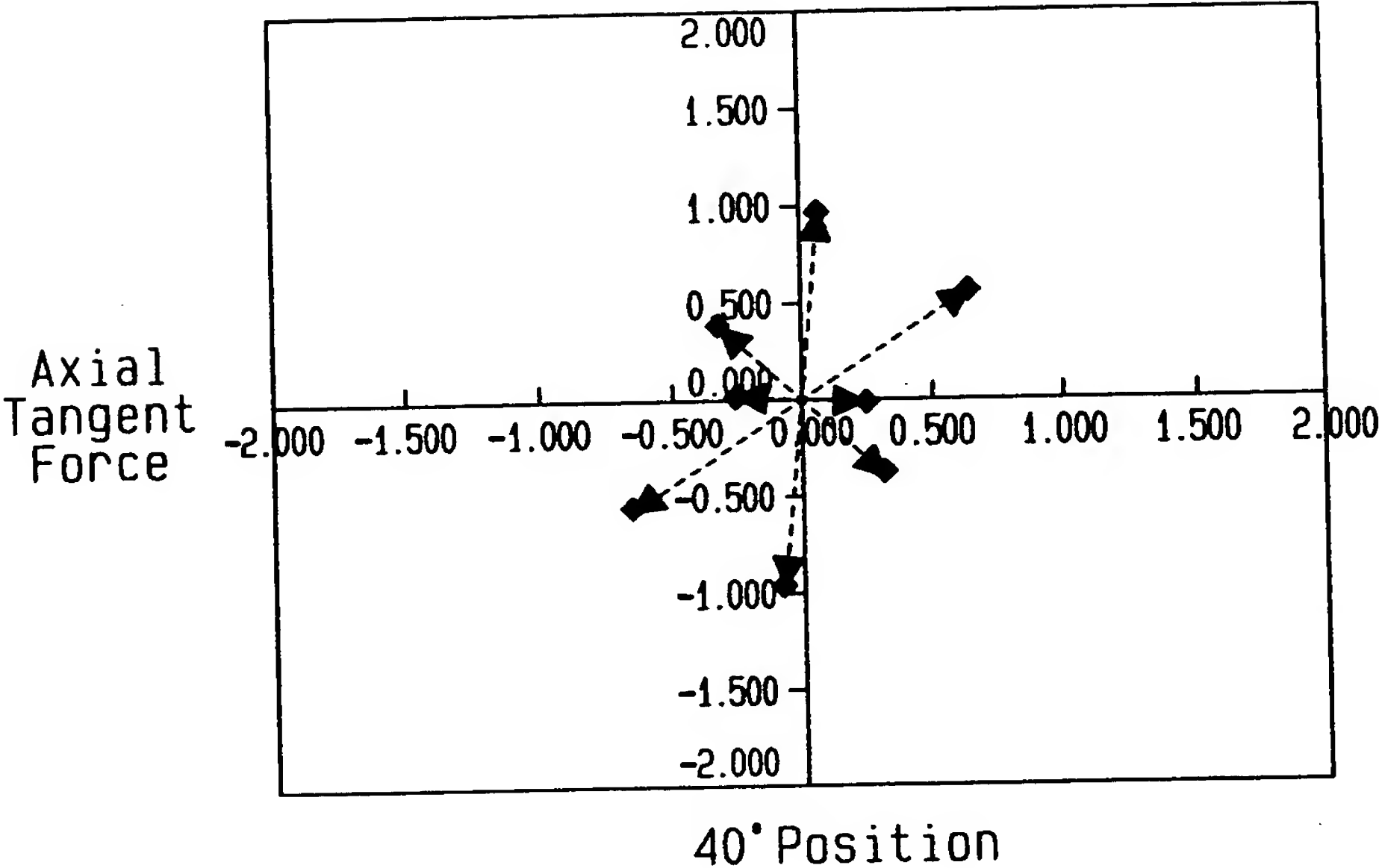
# Fig. 20 (a)



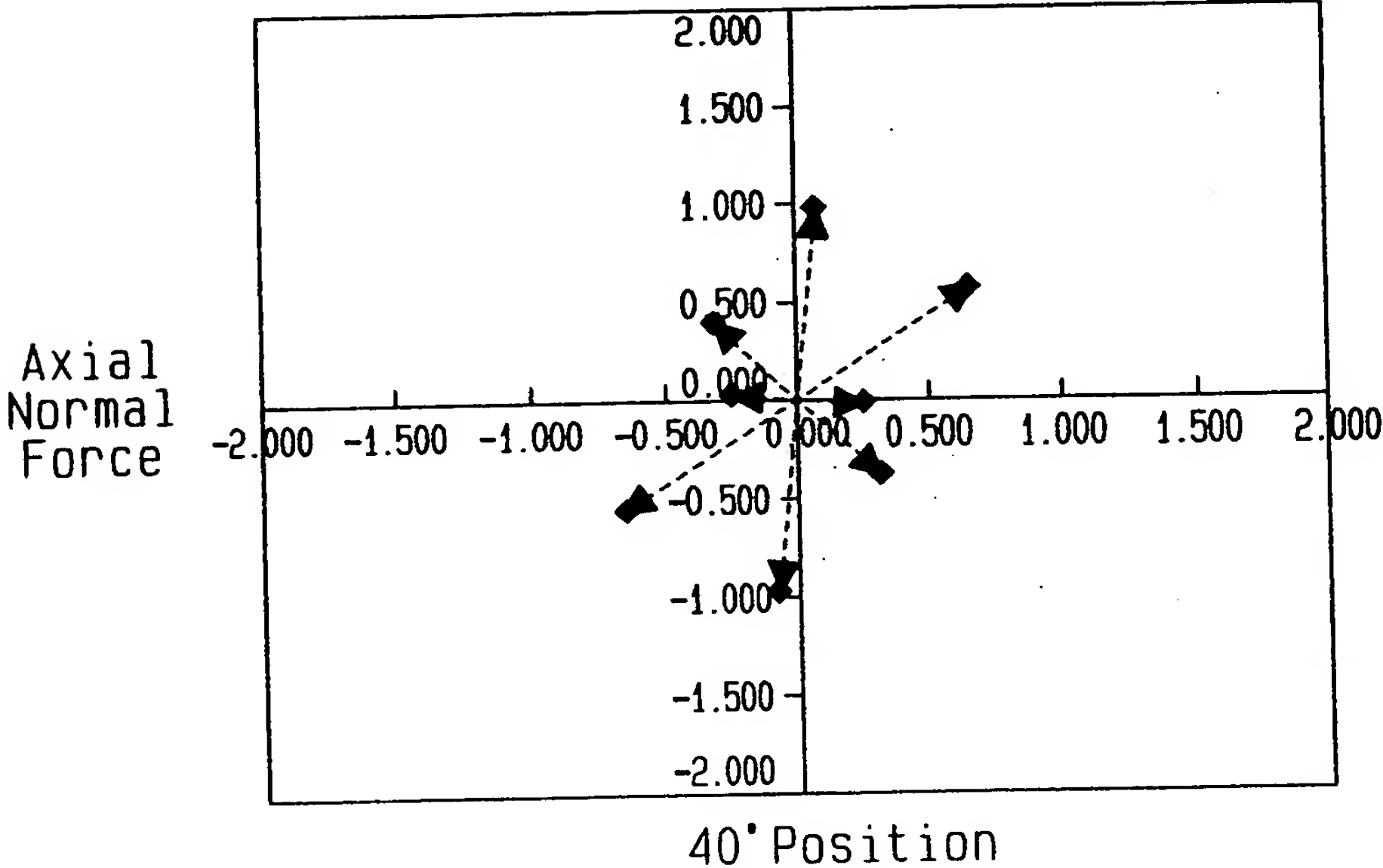
# Fig. 20 (b)



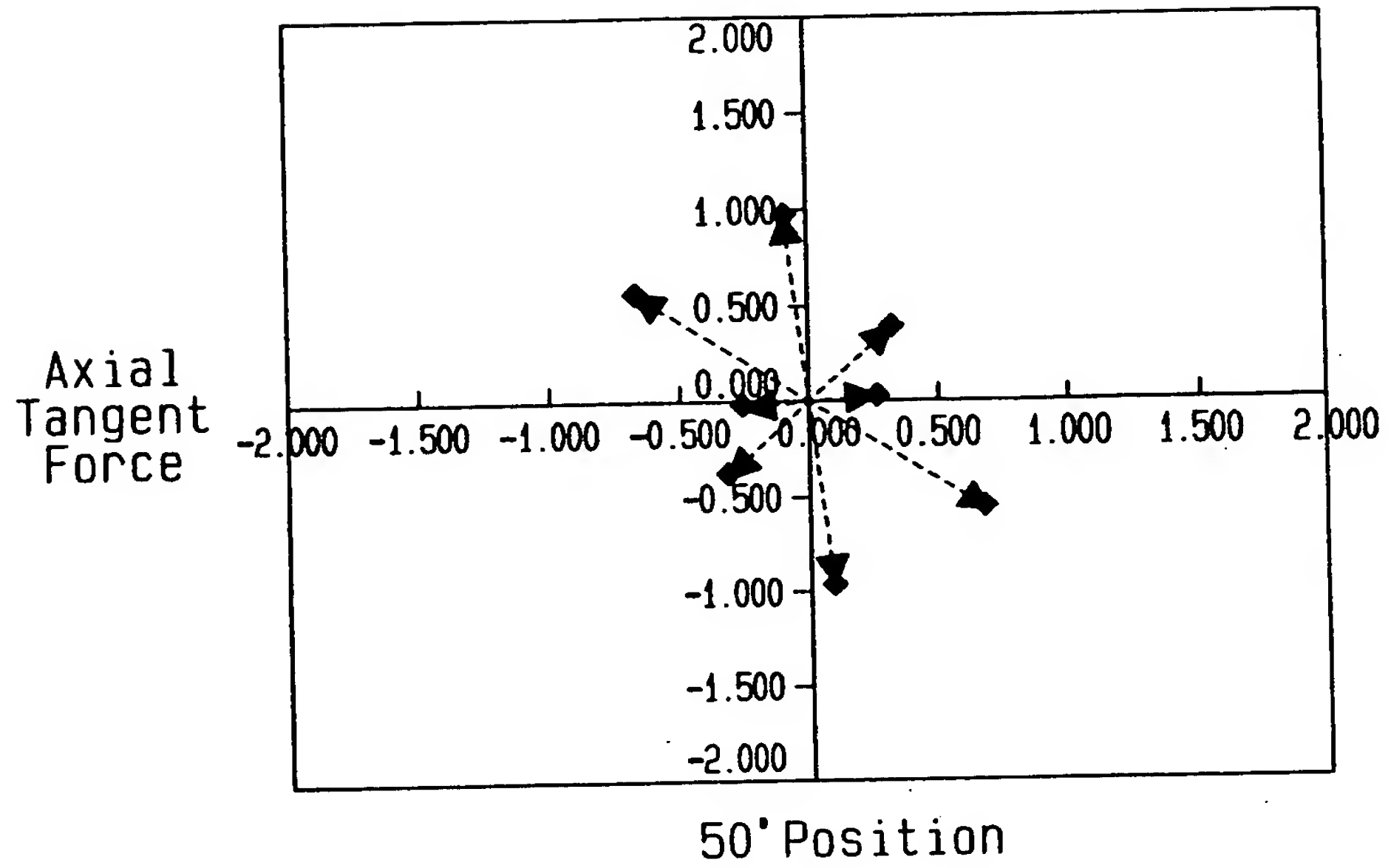
**Fig.21 (a )**



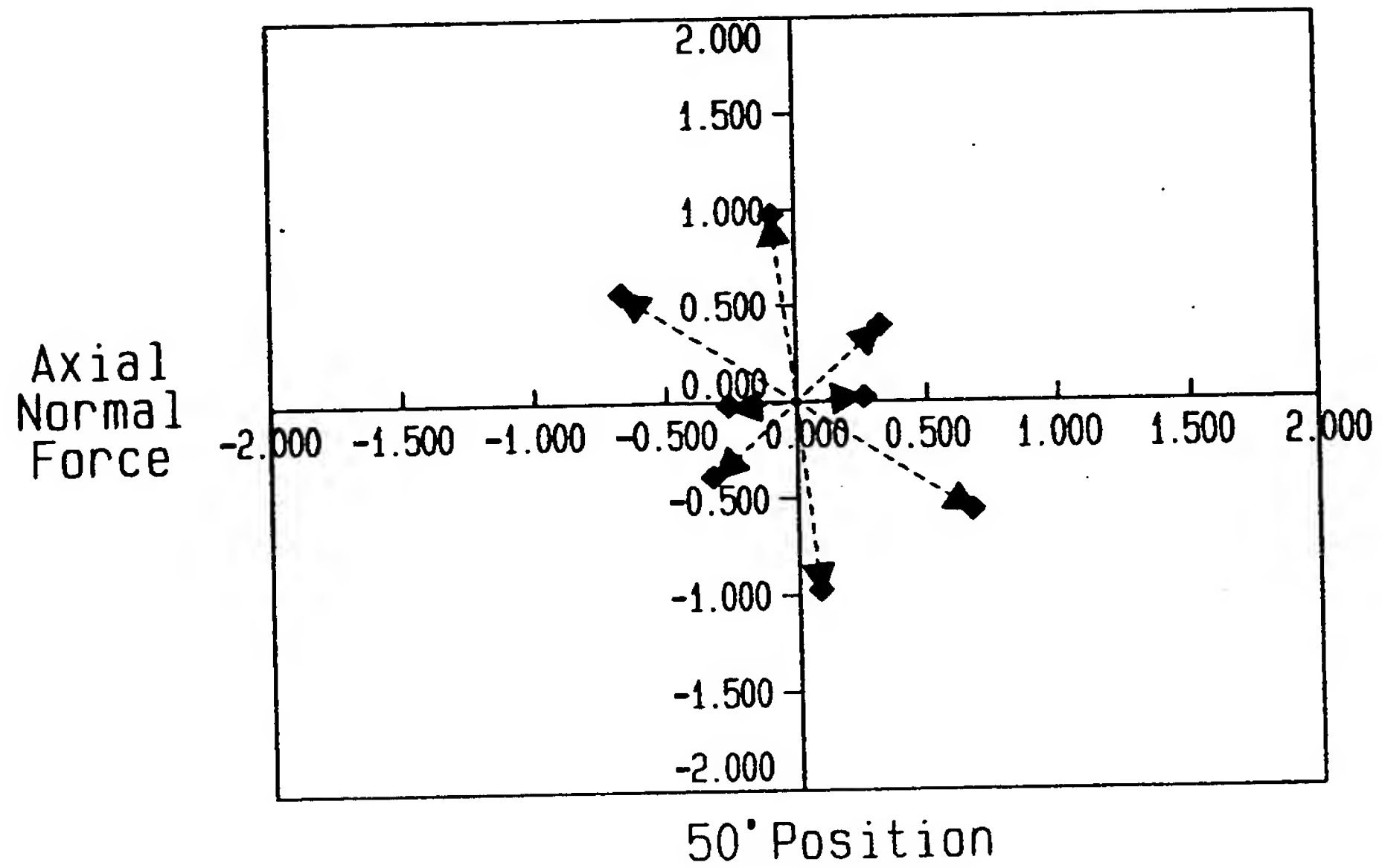
**Fig.21 (b )**



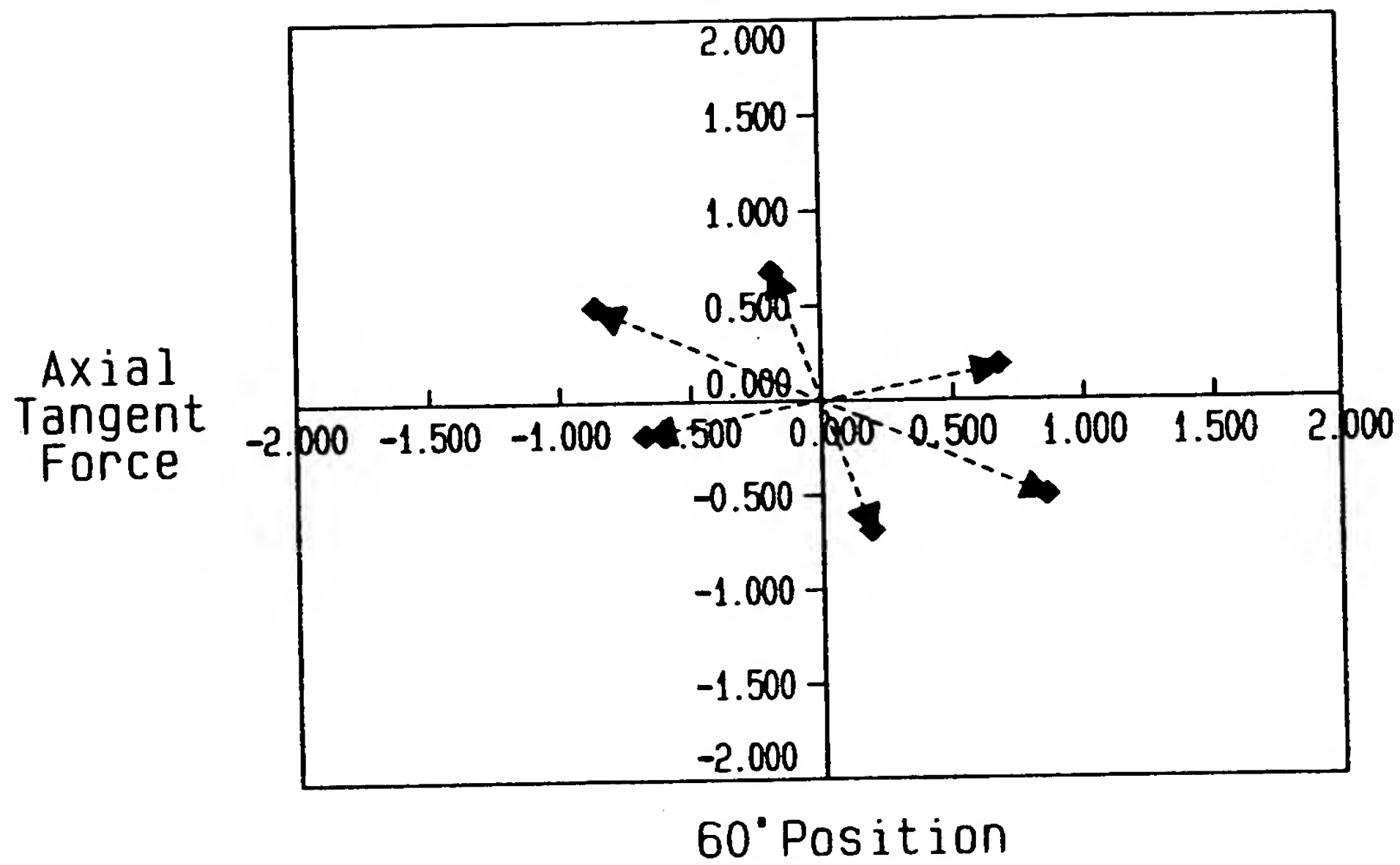
**Fig. 22 (a)**



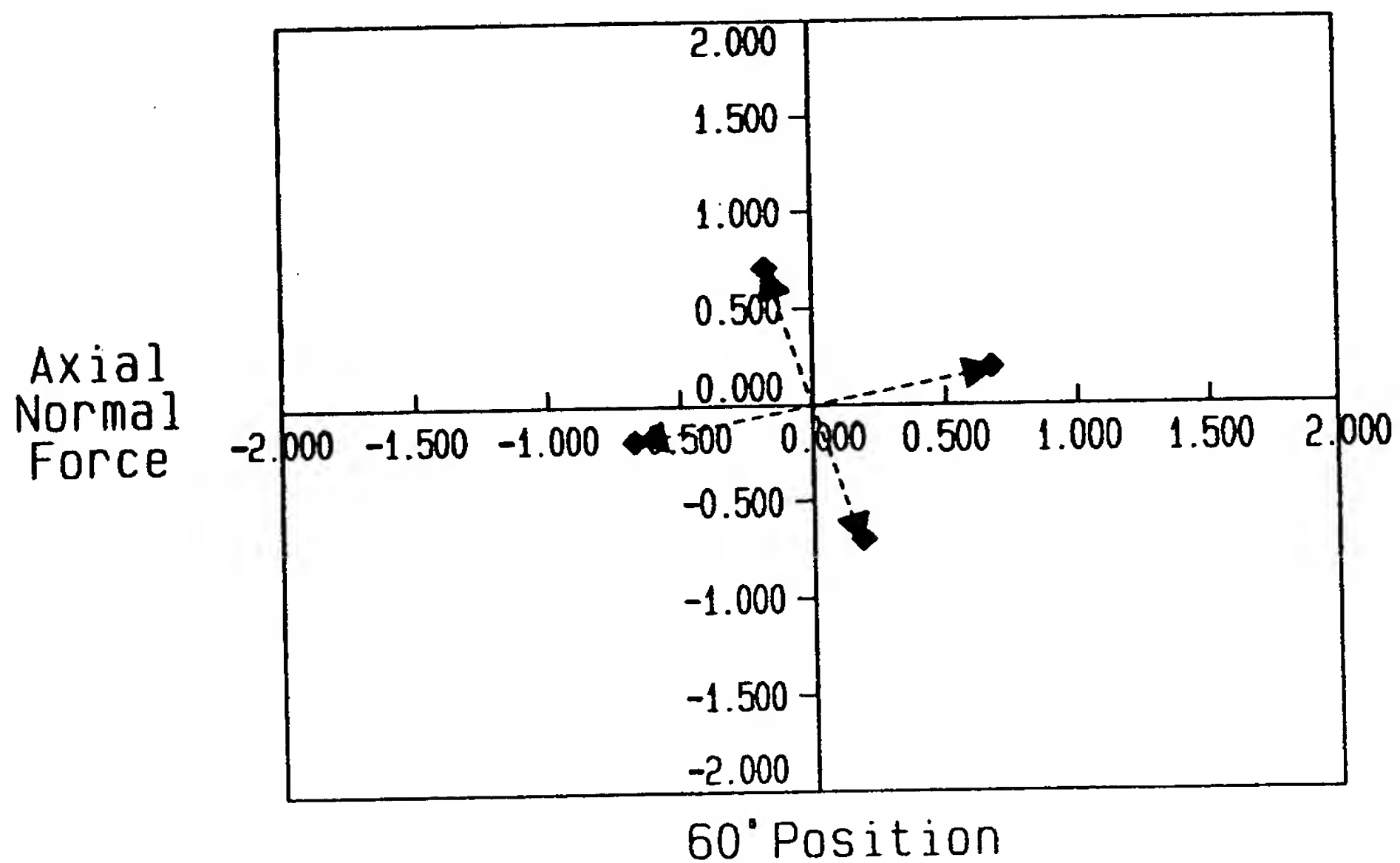
**Fig. 22 (b)**



# Fig. 23 (a)

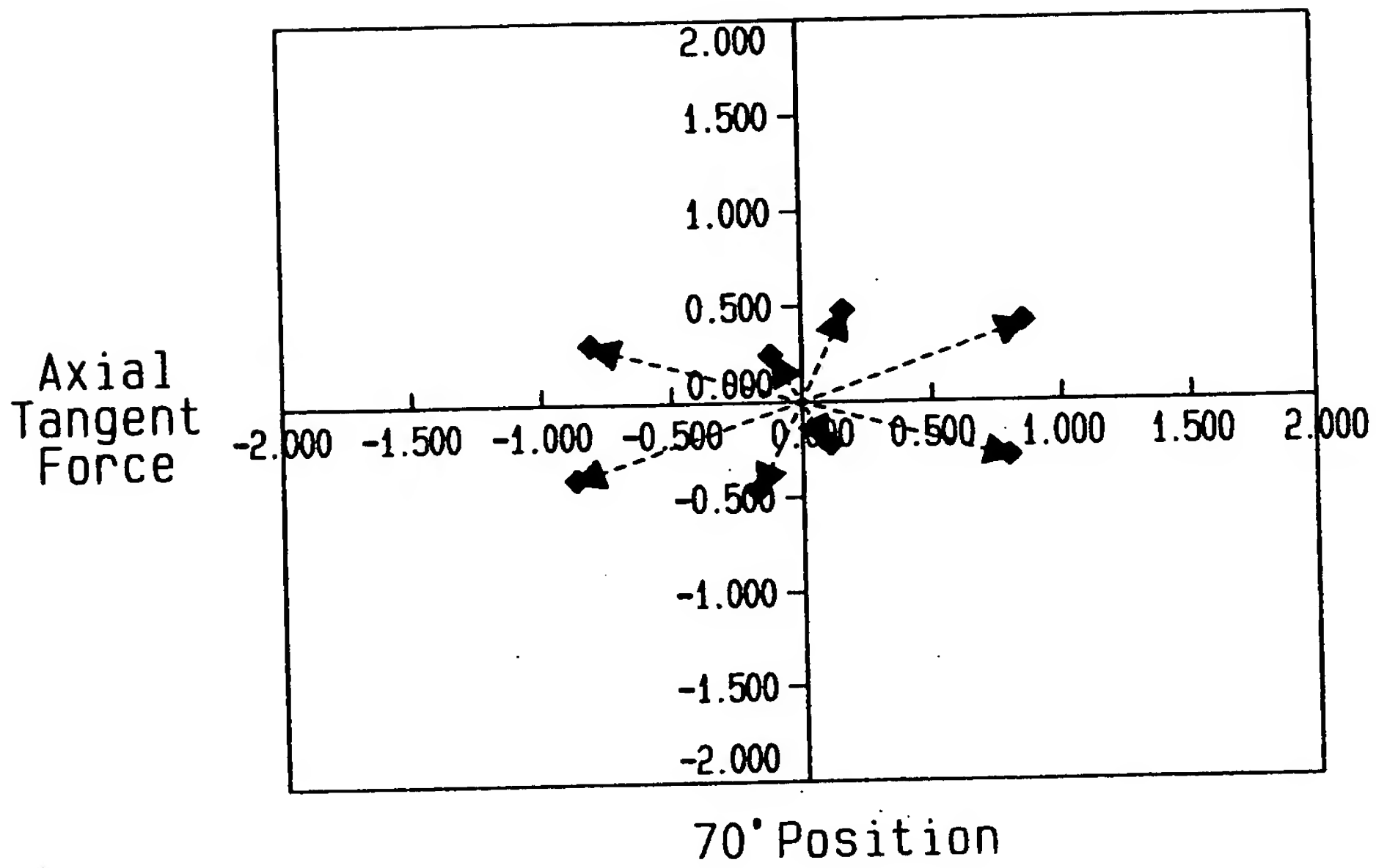


# Fig. 23 (b)

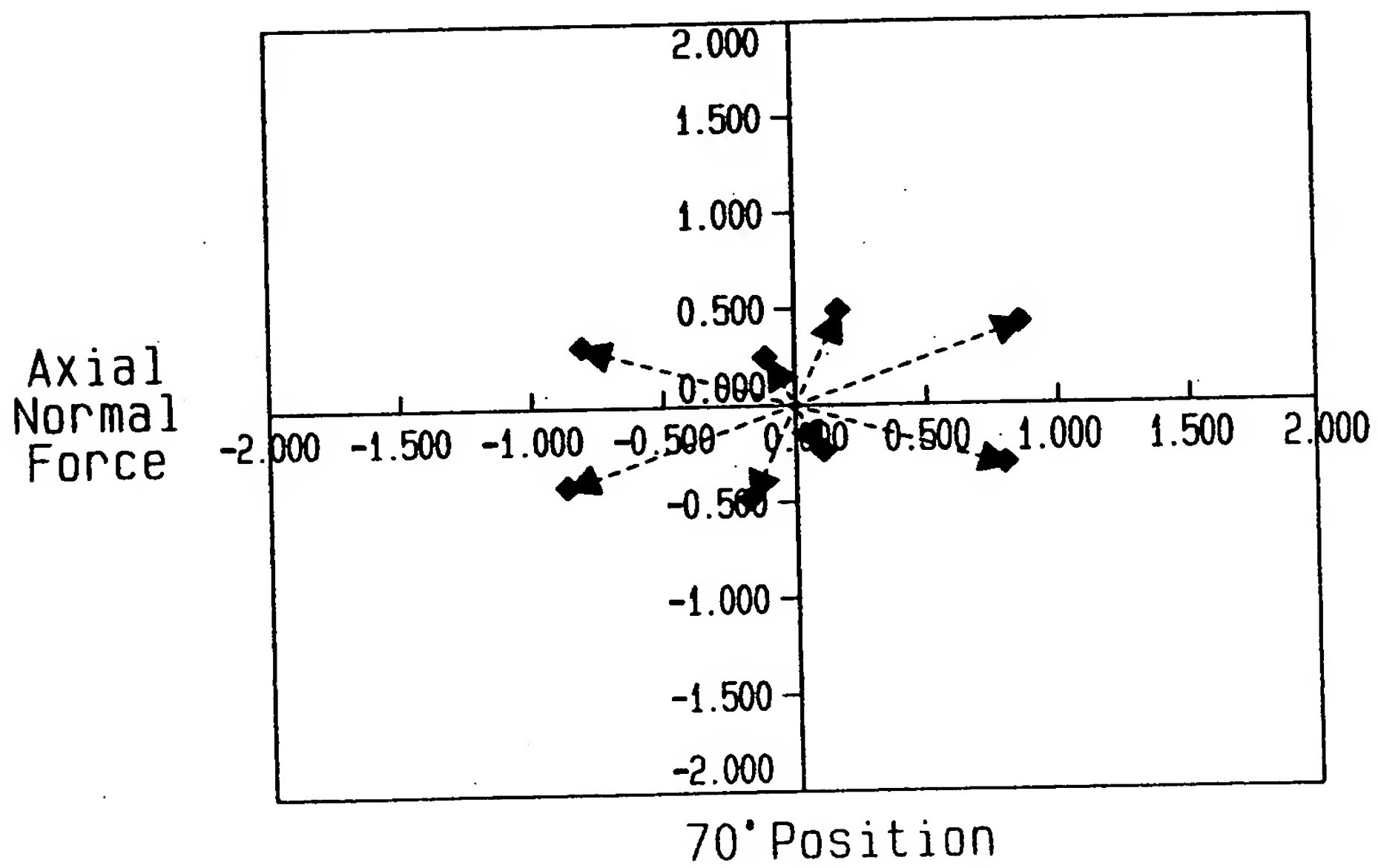


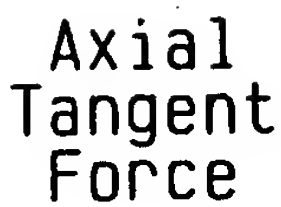


# Fig. 24 (a)

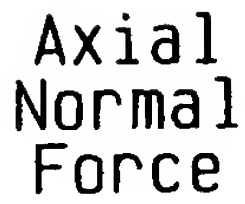


# Fig. 24 (b)

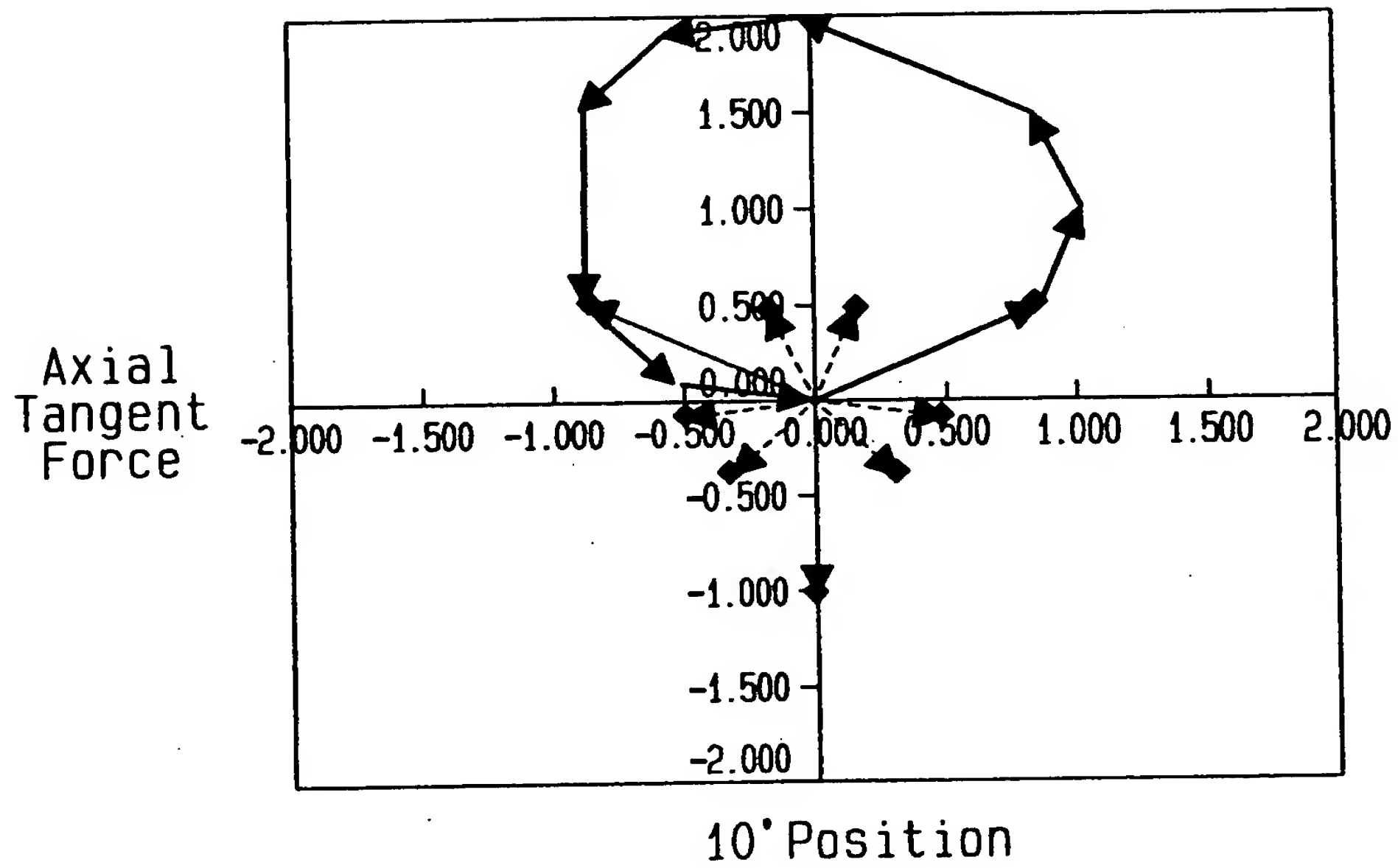


[illegible]

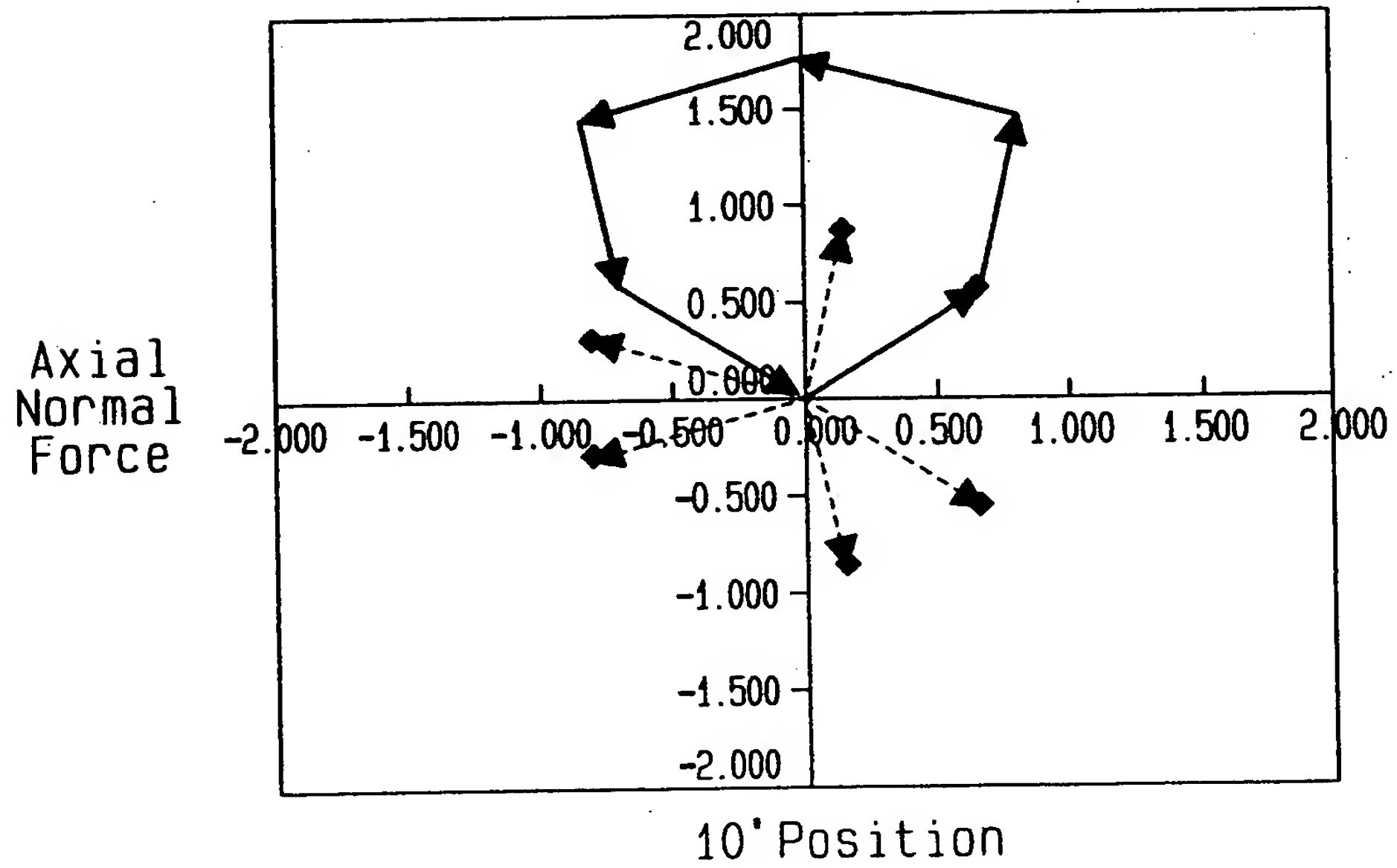
**Fig. 25 (b)**



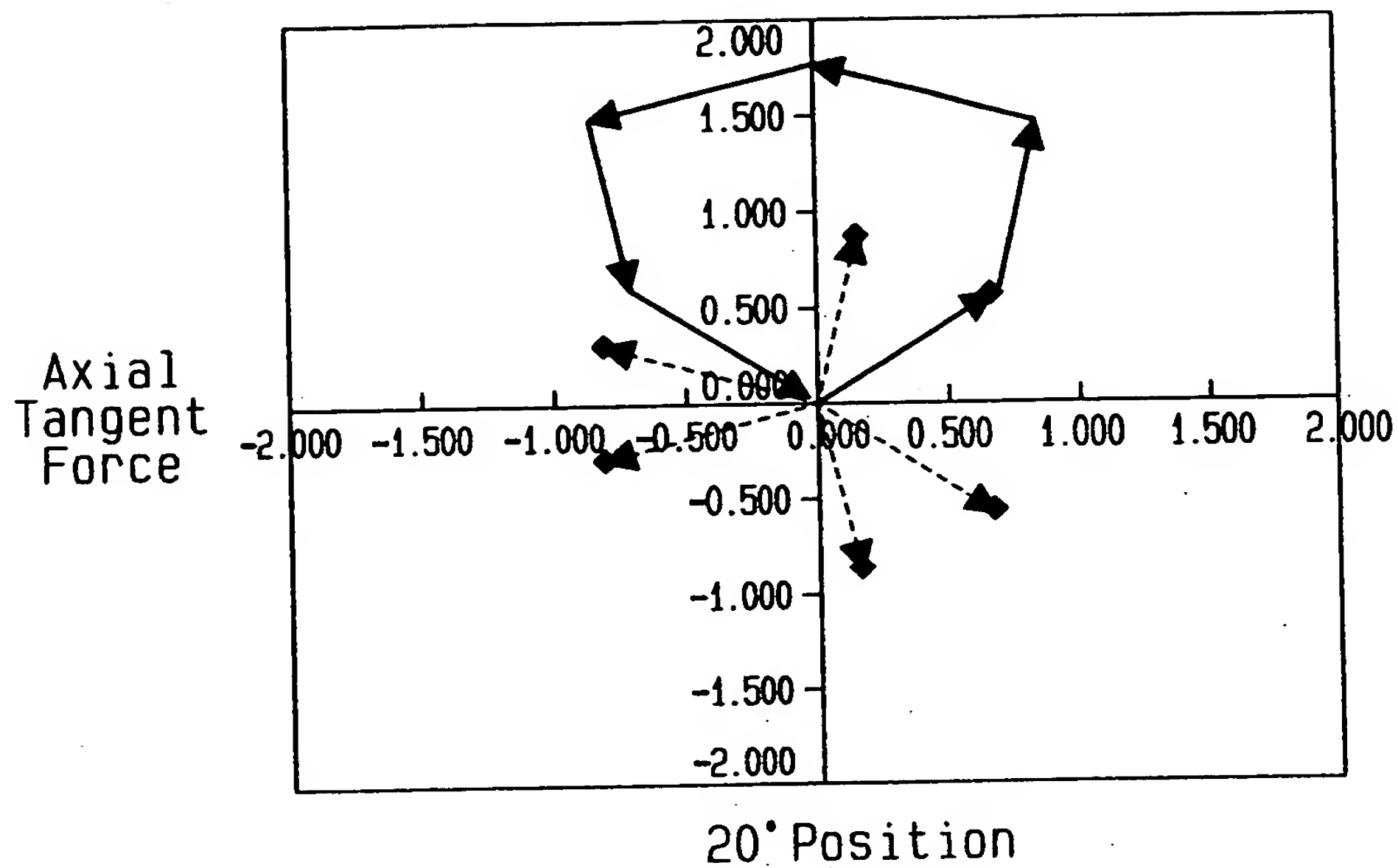
**Fig. 26 (a)**



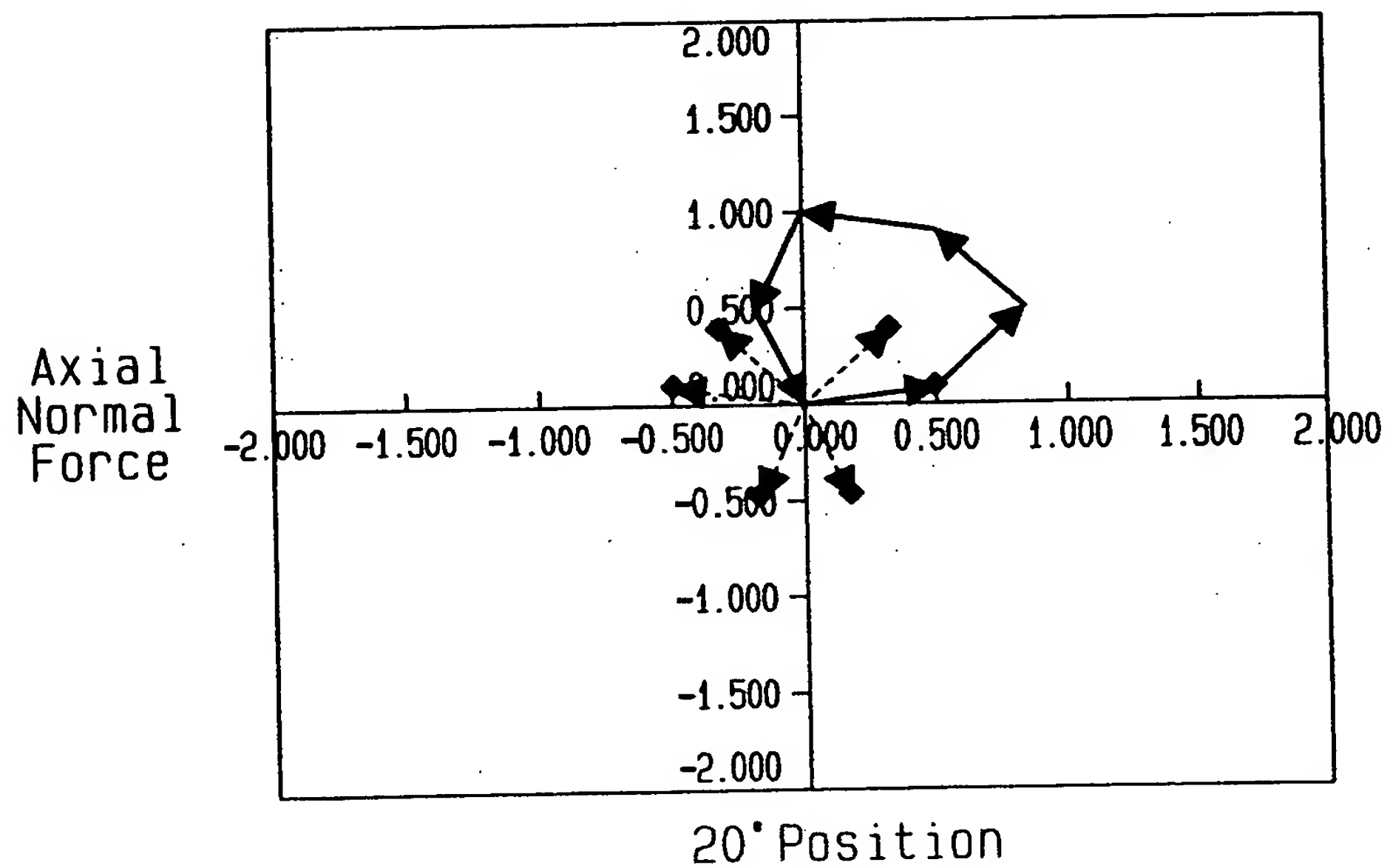
**Fig. 26 (b)**



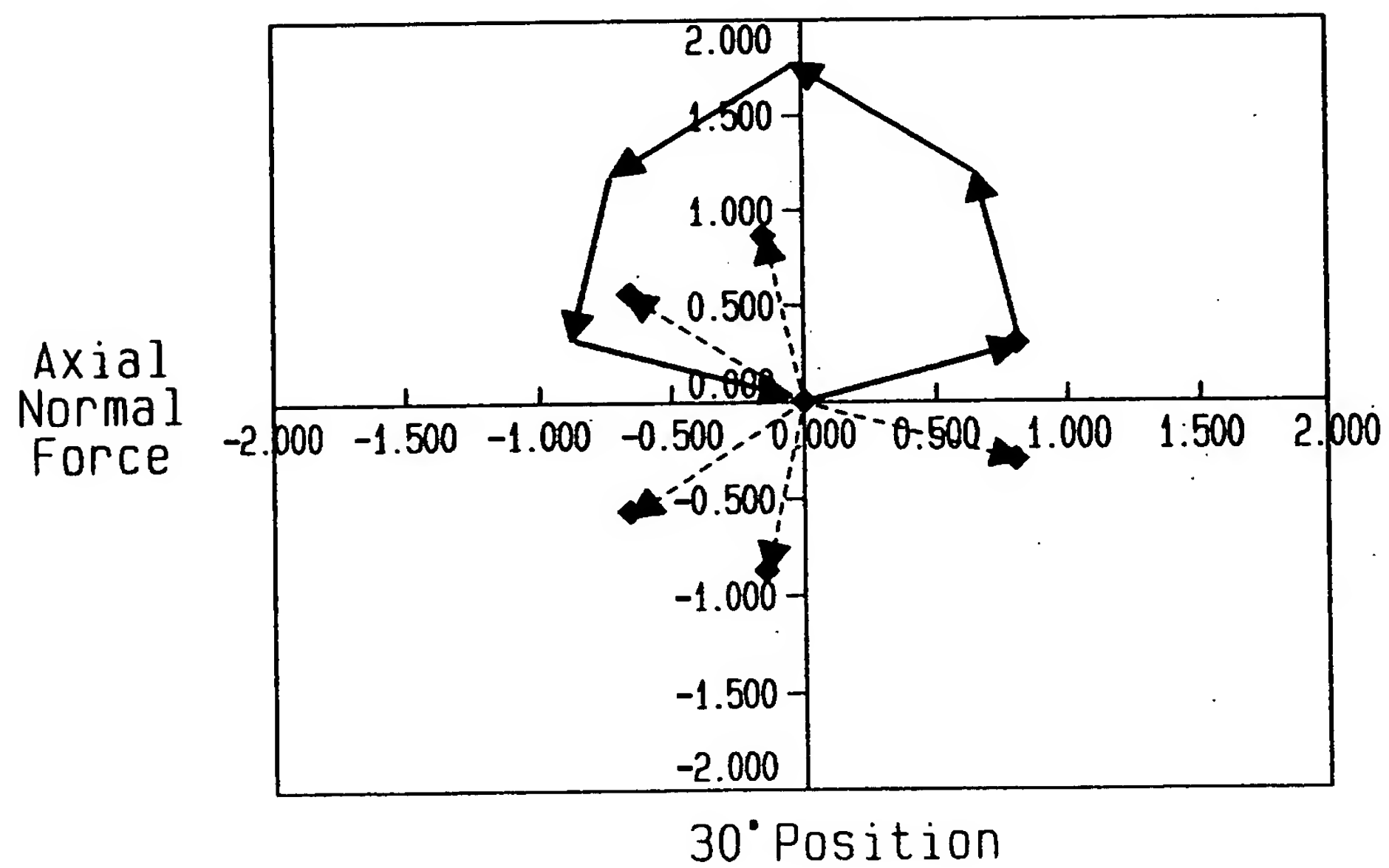
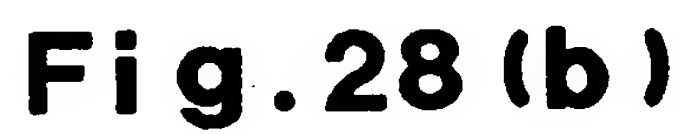
# Fig. 27 (a)



# Fig. 27 (b)

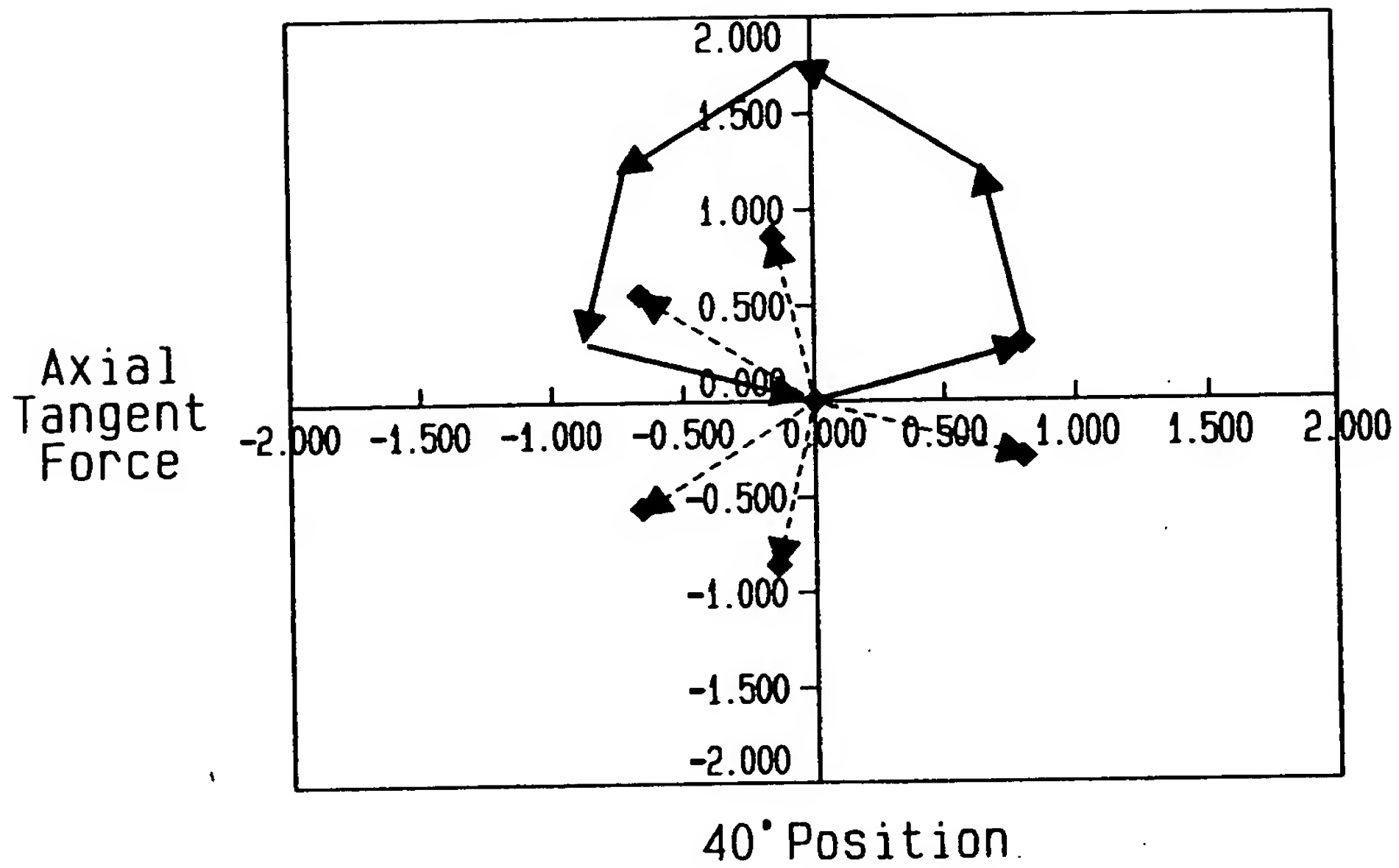


**Fig. 28 (a)**

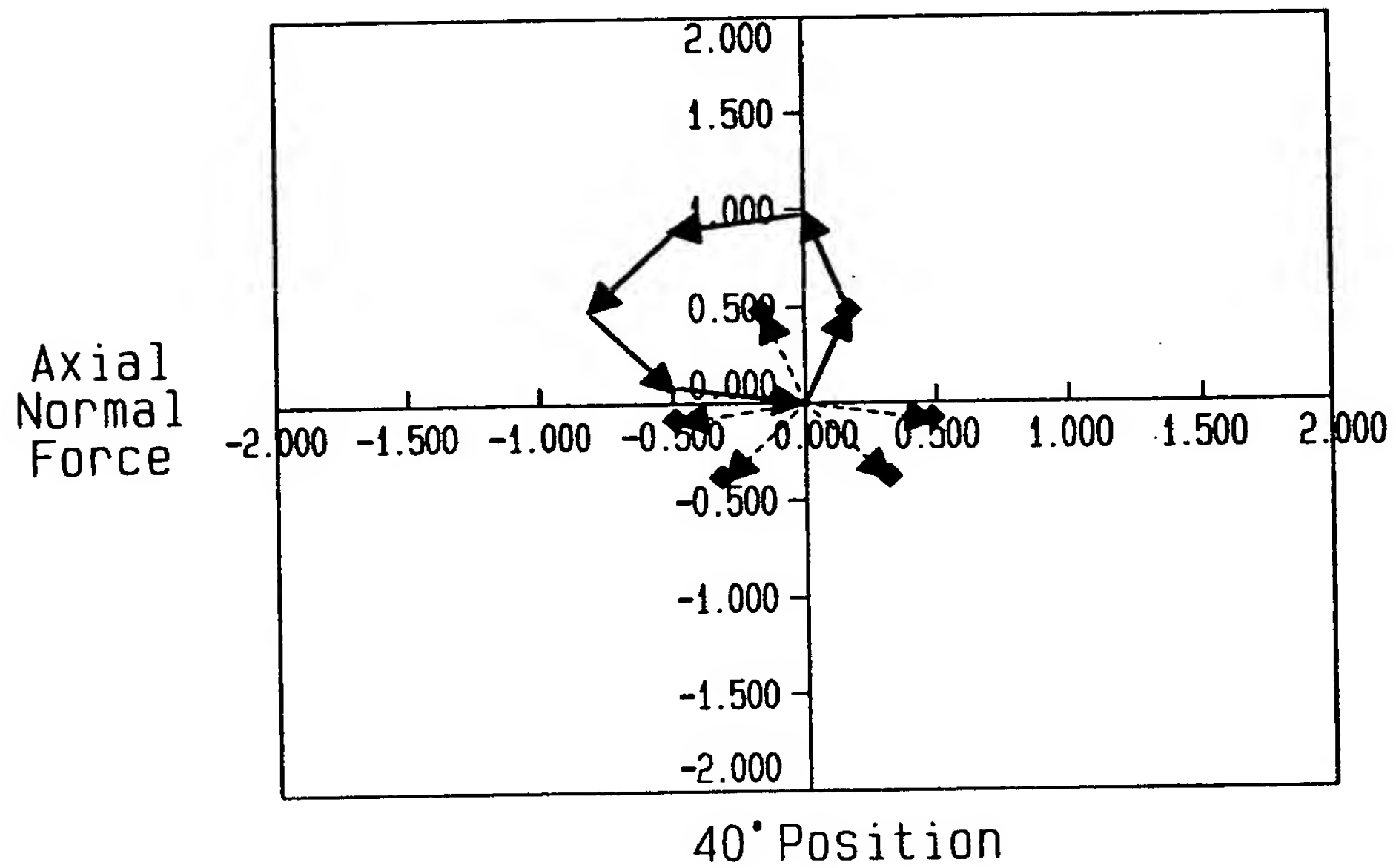




# Fig. 29 (a)



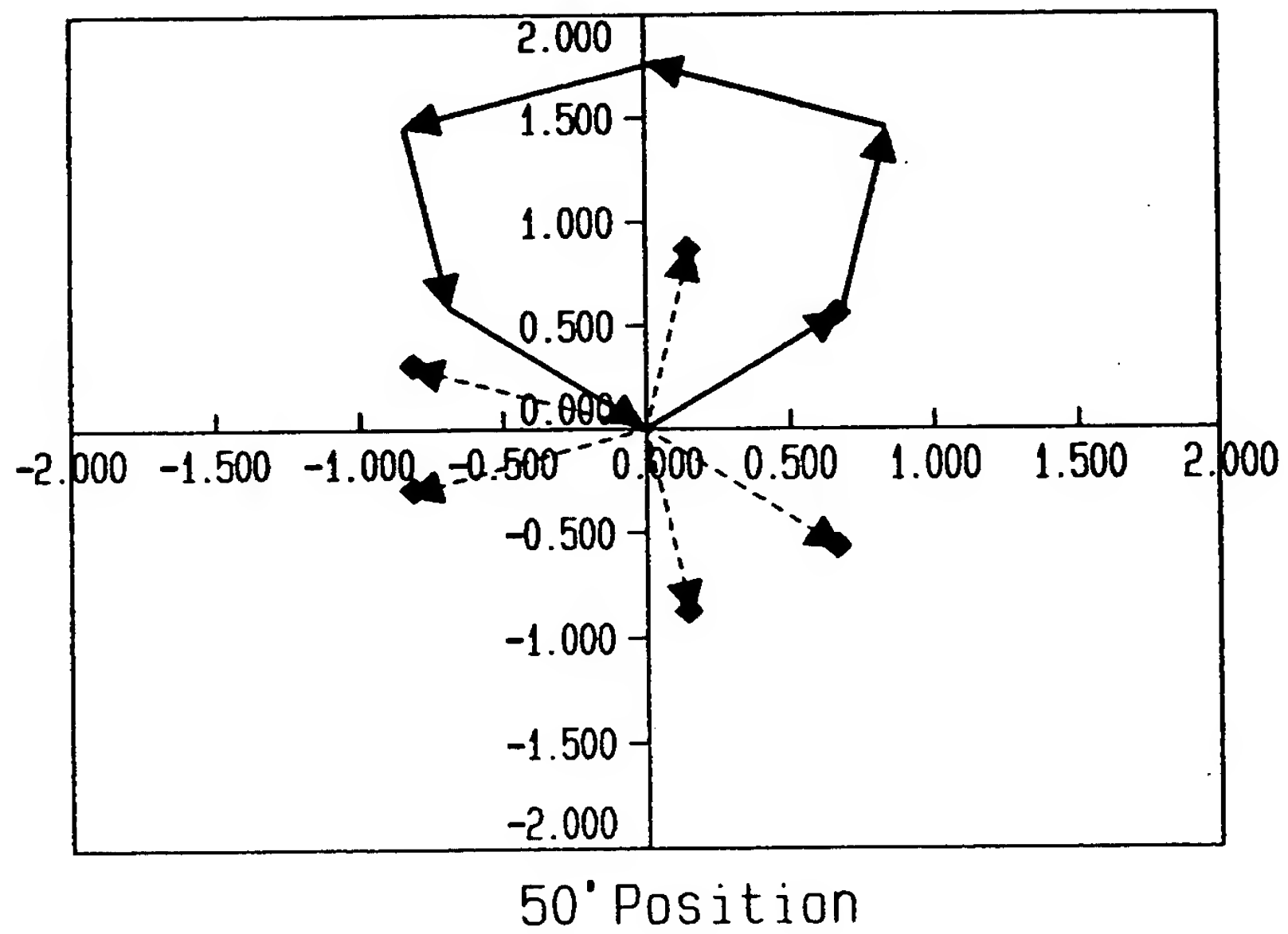
# Fig. 29 (b)



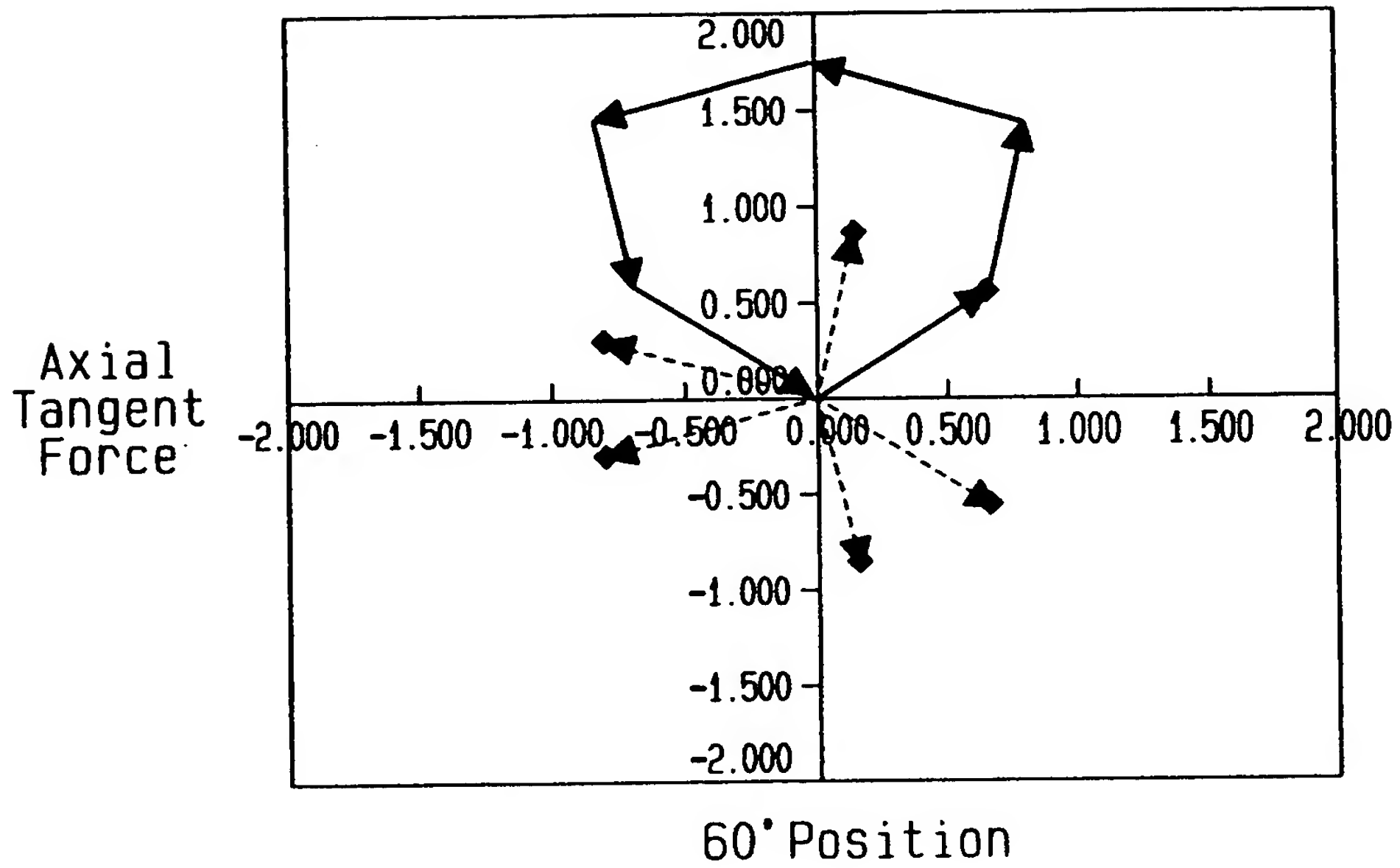
44-38861-1000



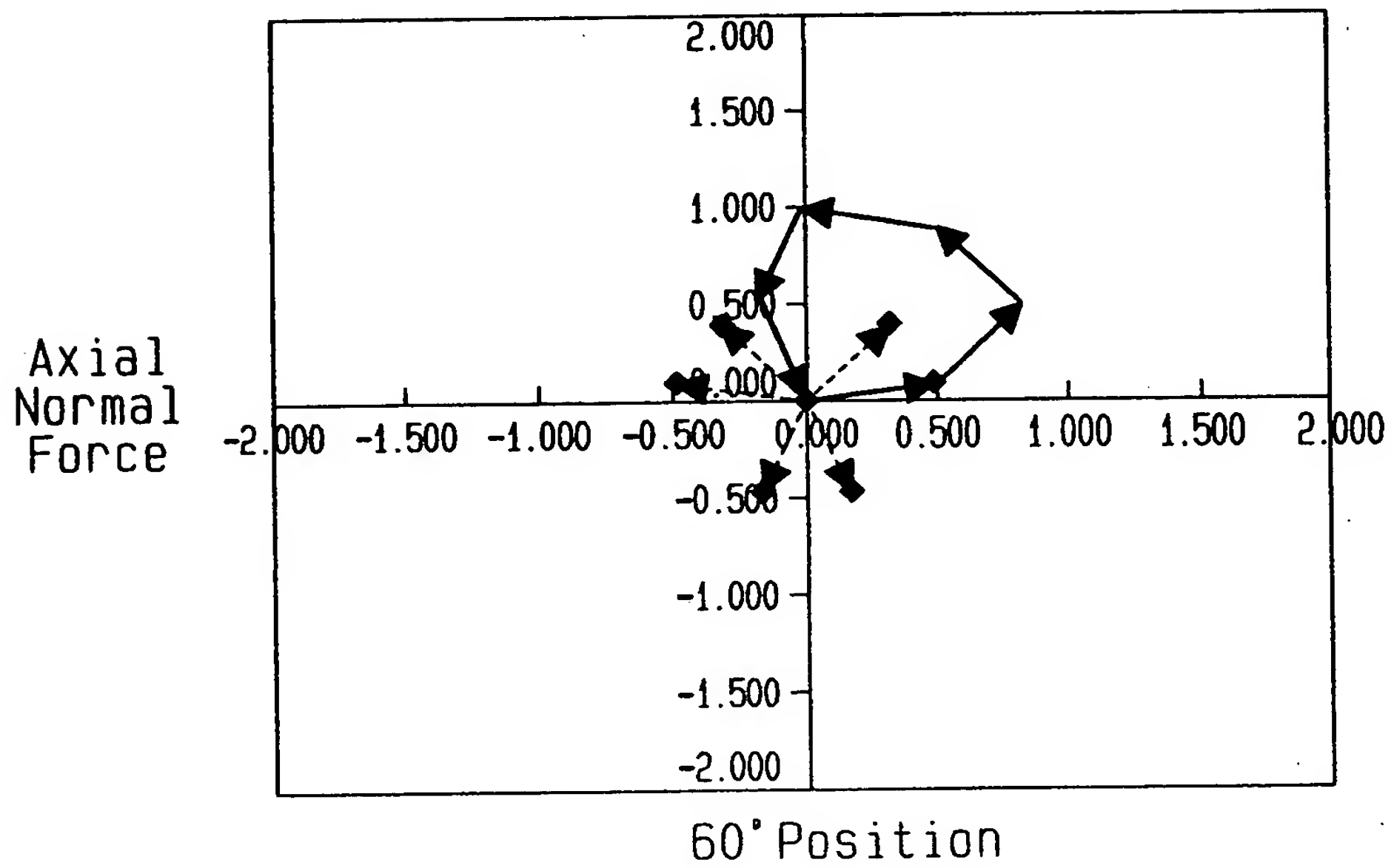
Axial  
Normal  
Force



**Fig. 31 (a)**

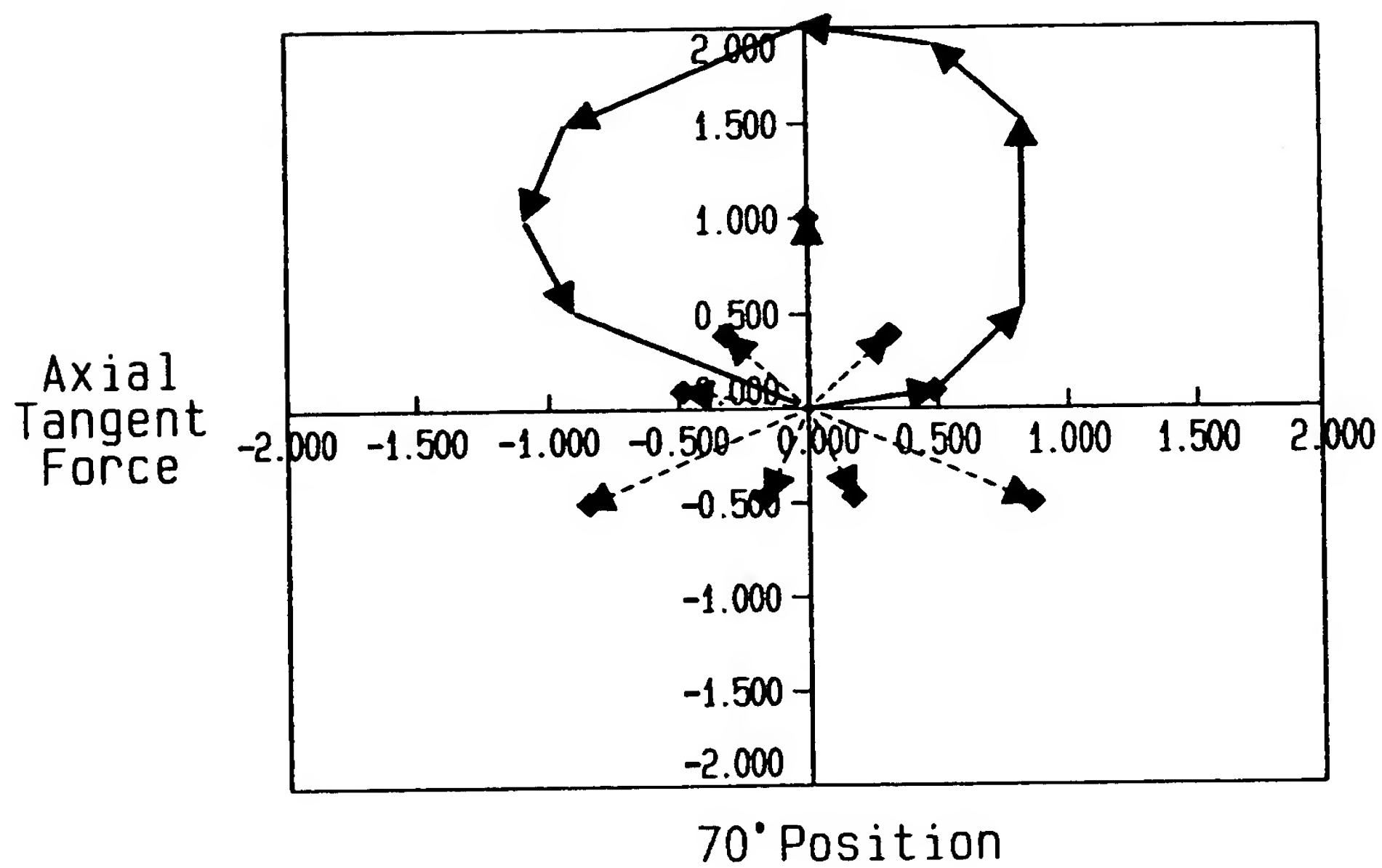


**Fig. 31 (b)**

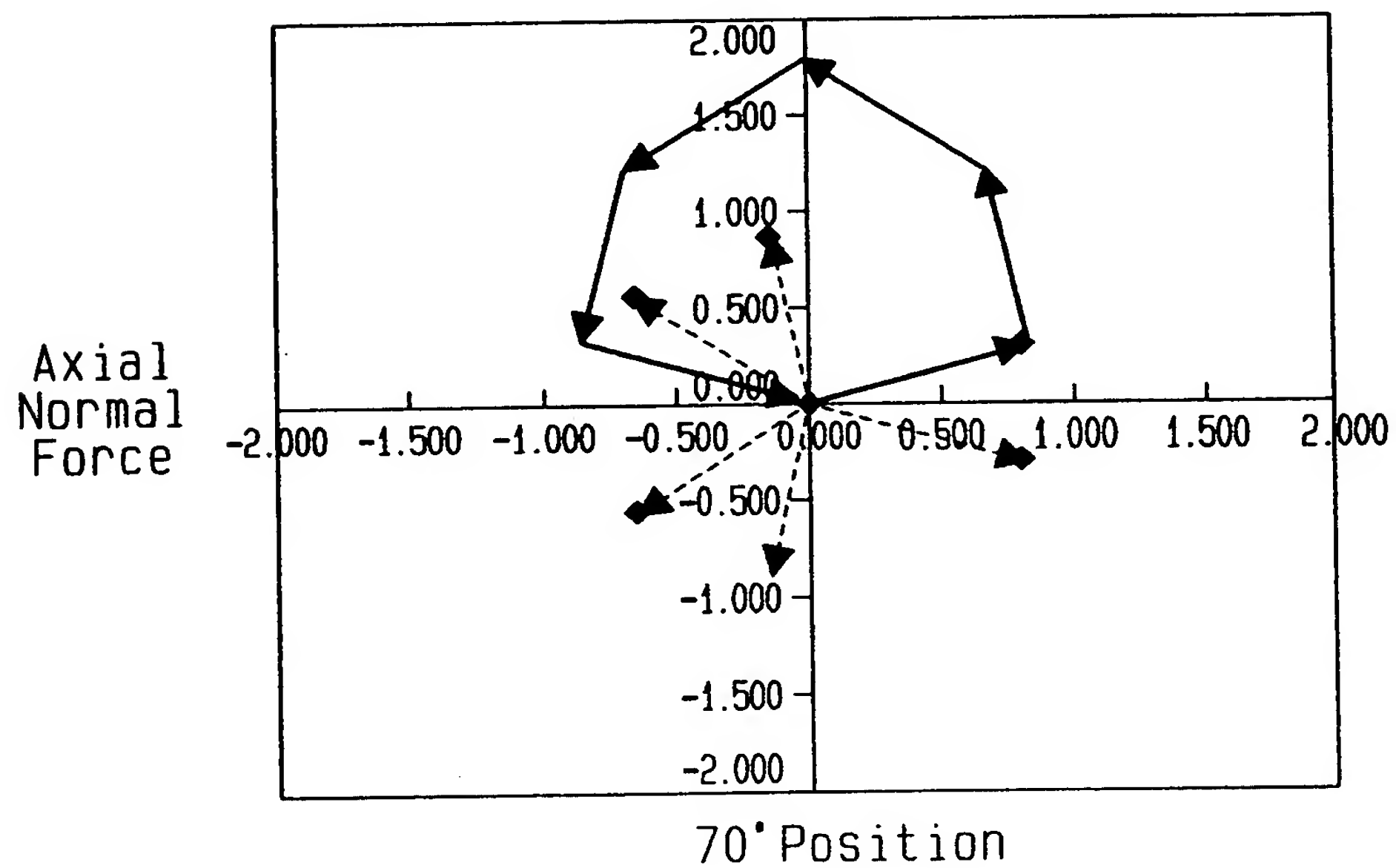


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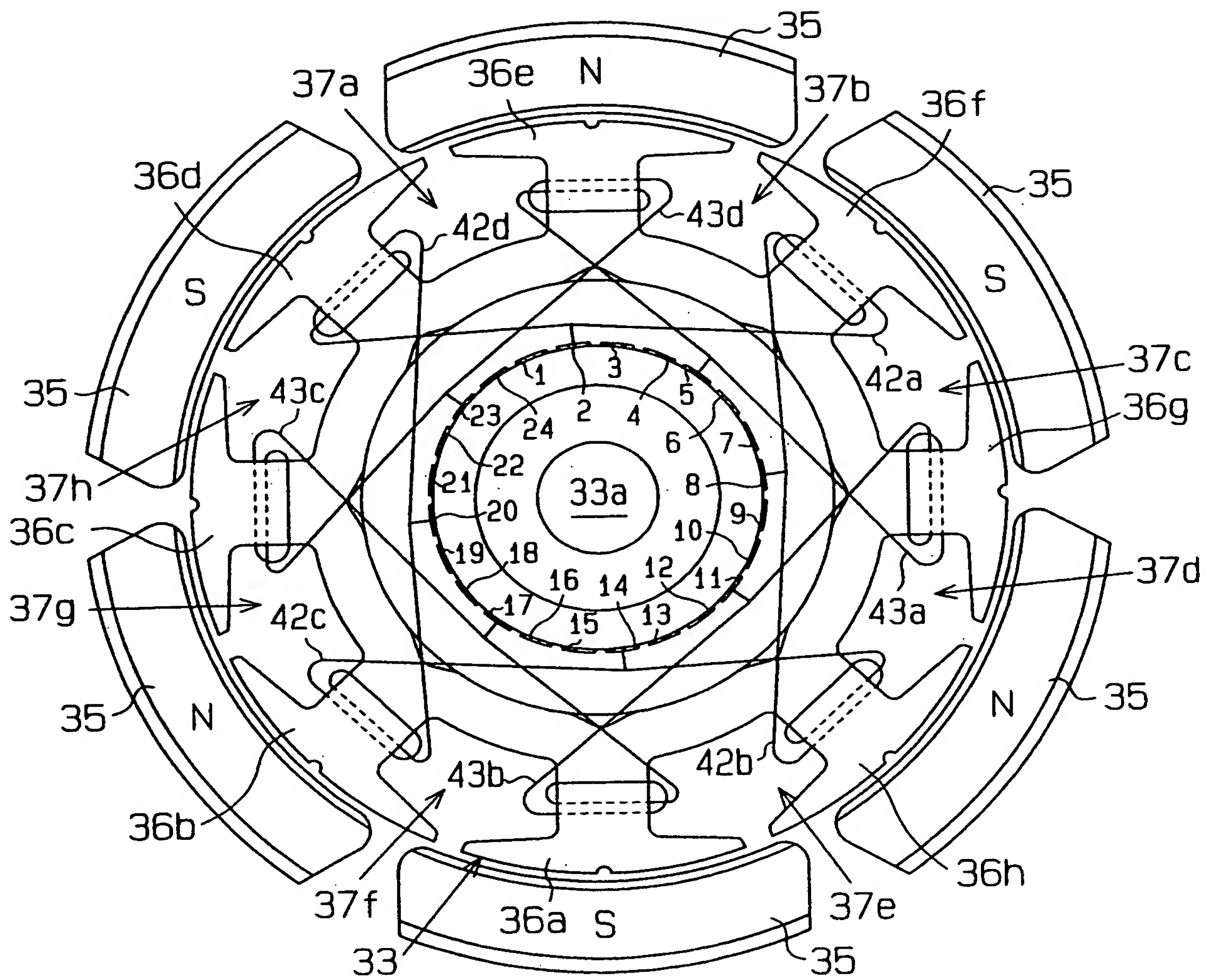
**Fig. 32 (a)**



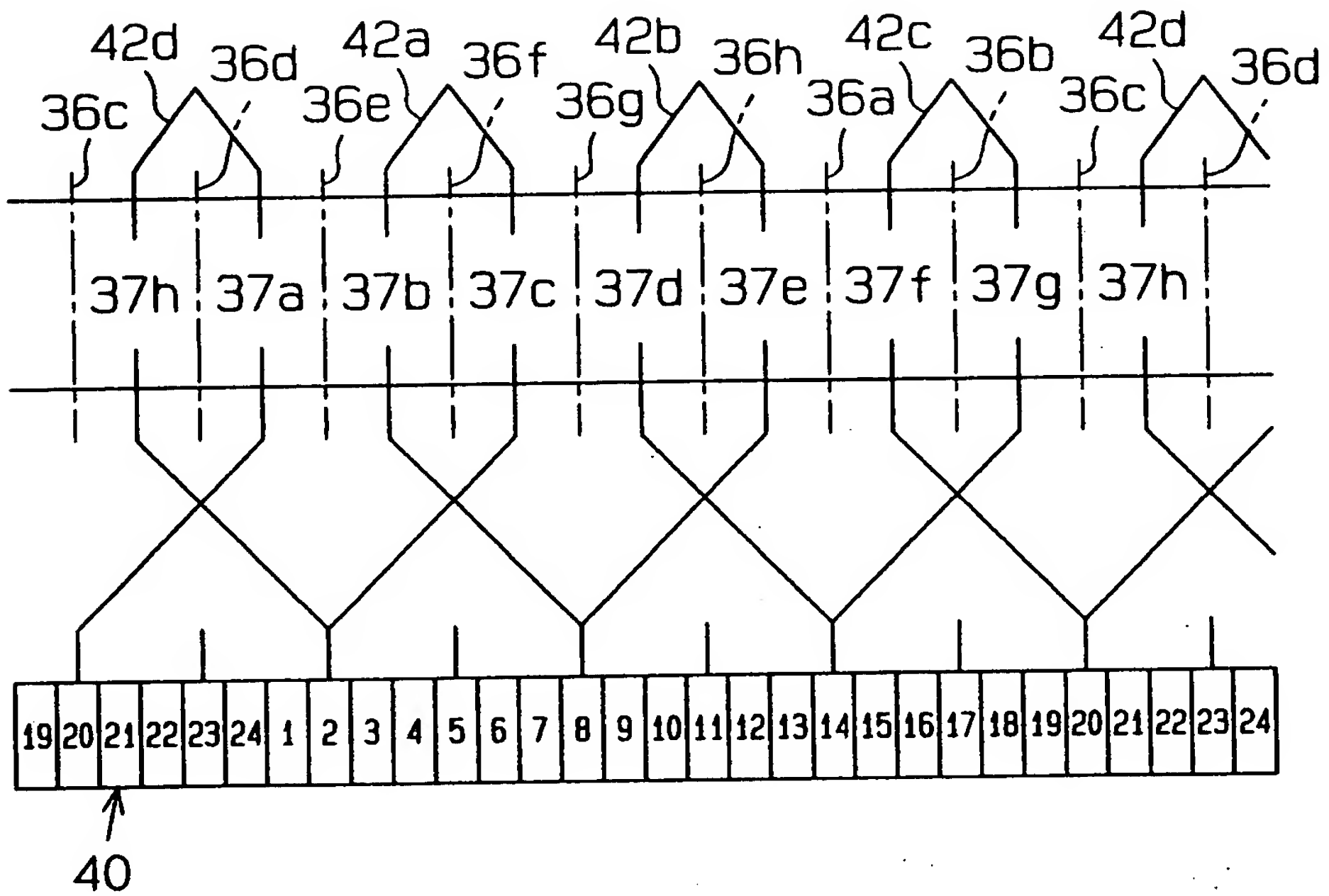
**Fig. 32 (b)**



**Fig. 33**



# Fig. 34



# Fig. 35

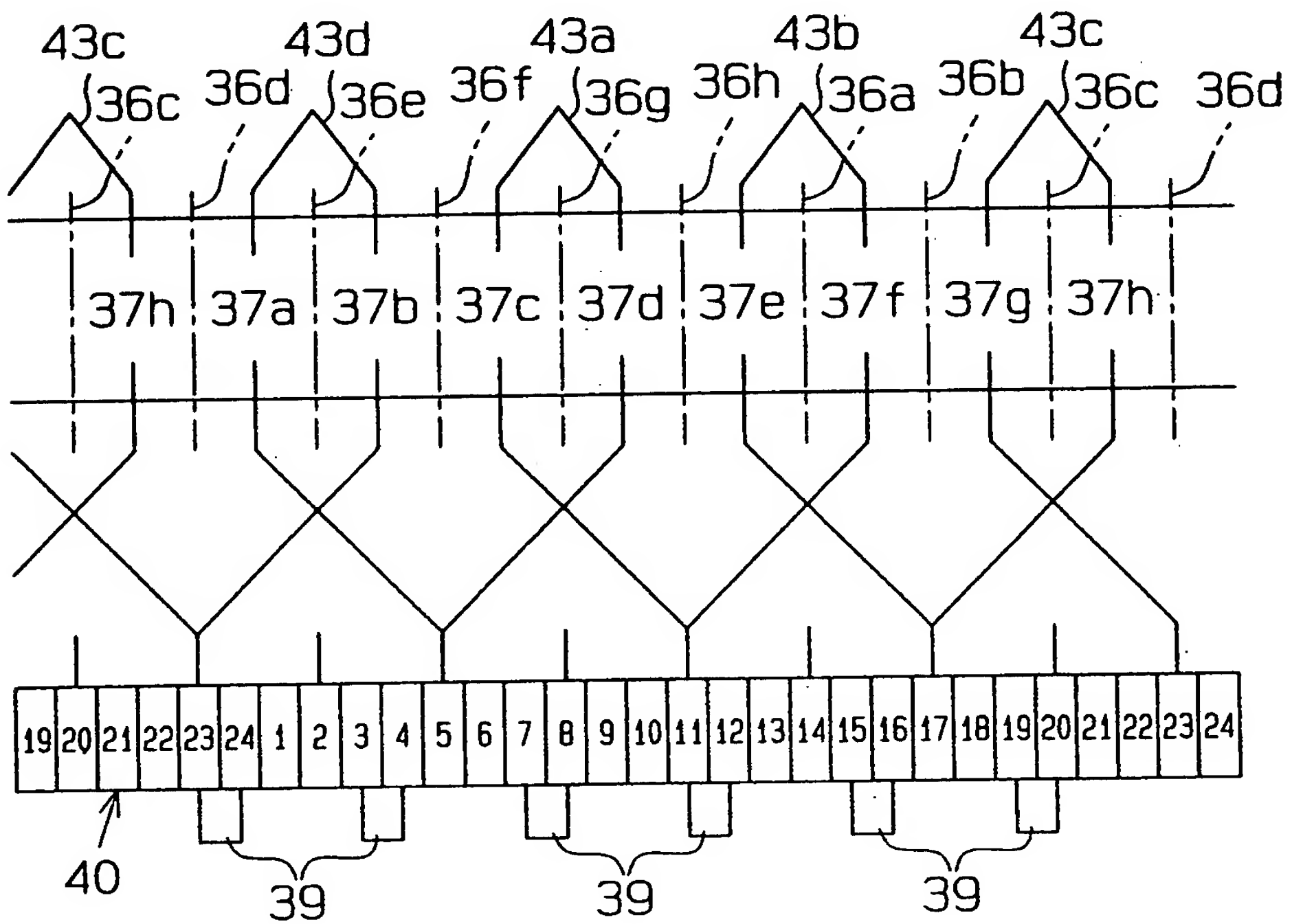
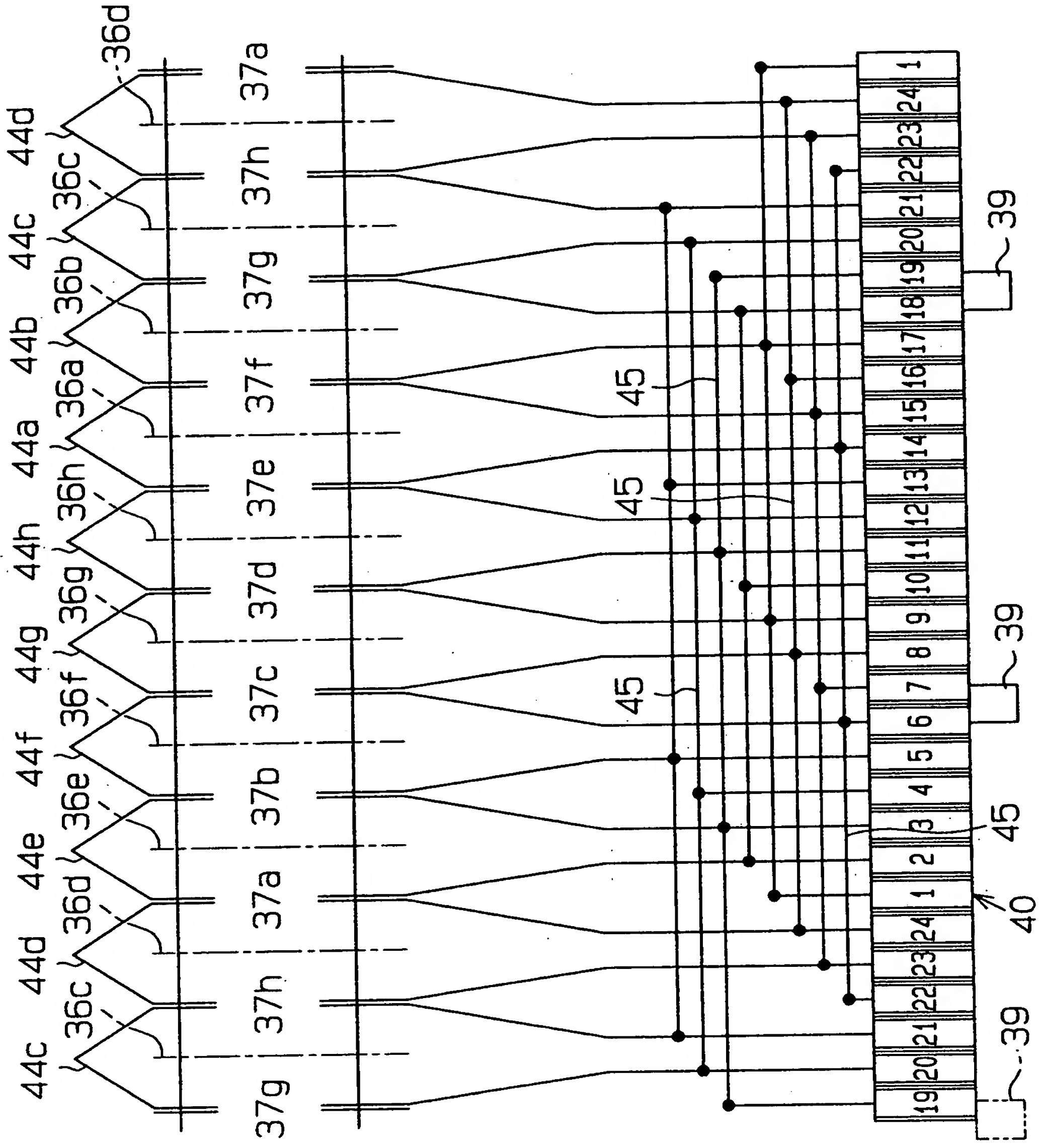


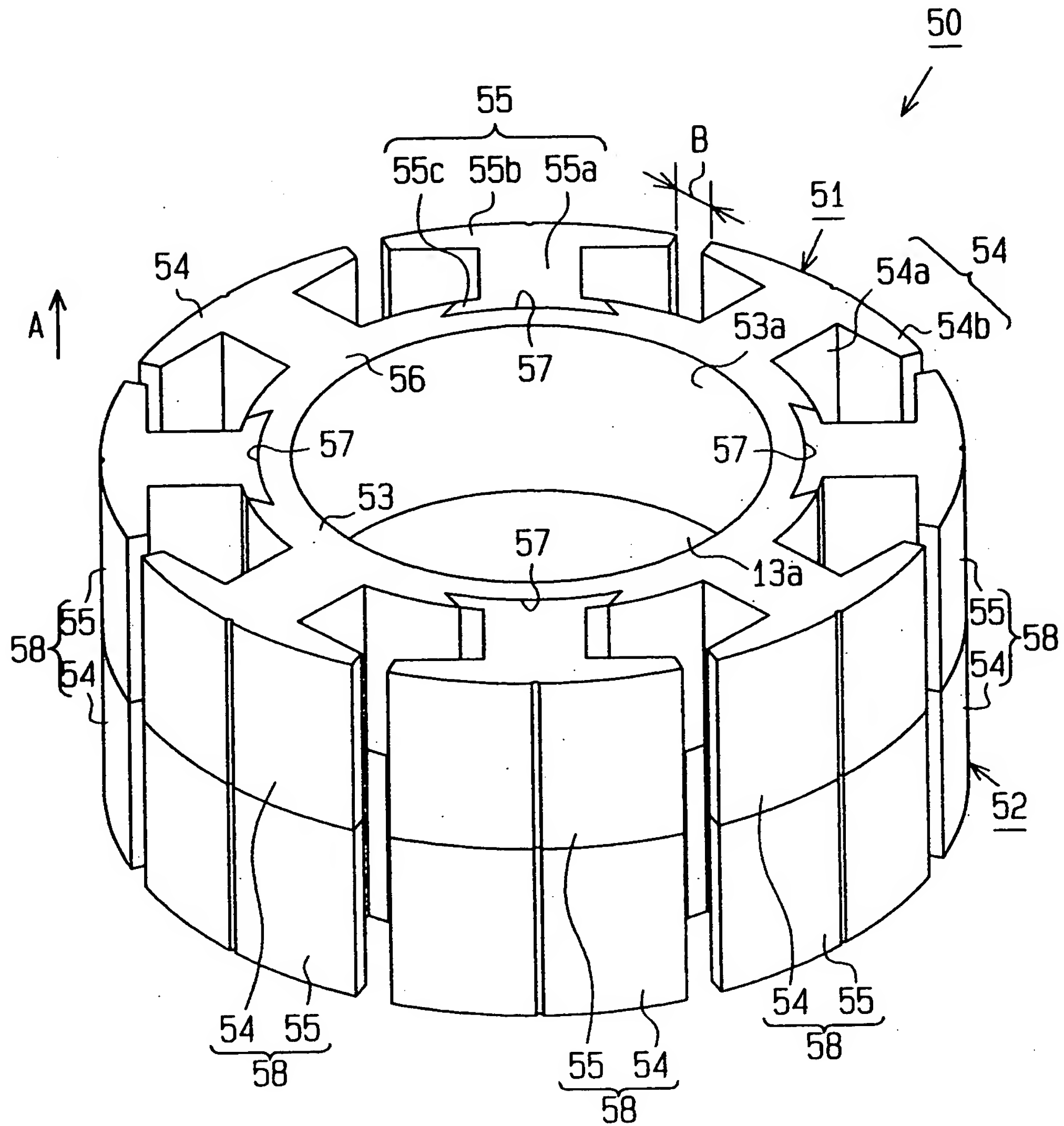


Fig. 37

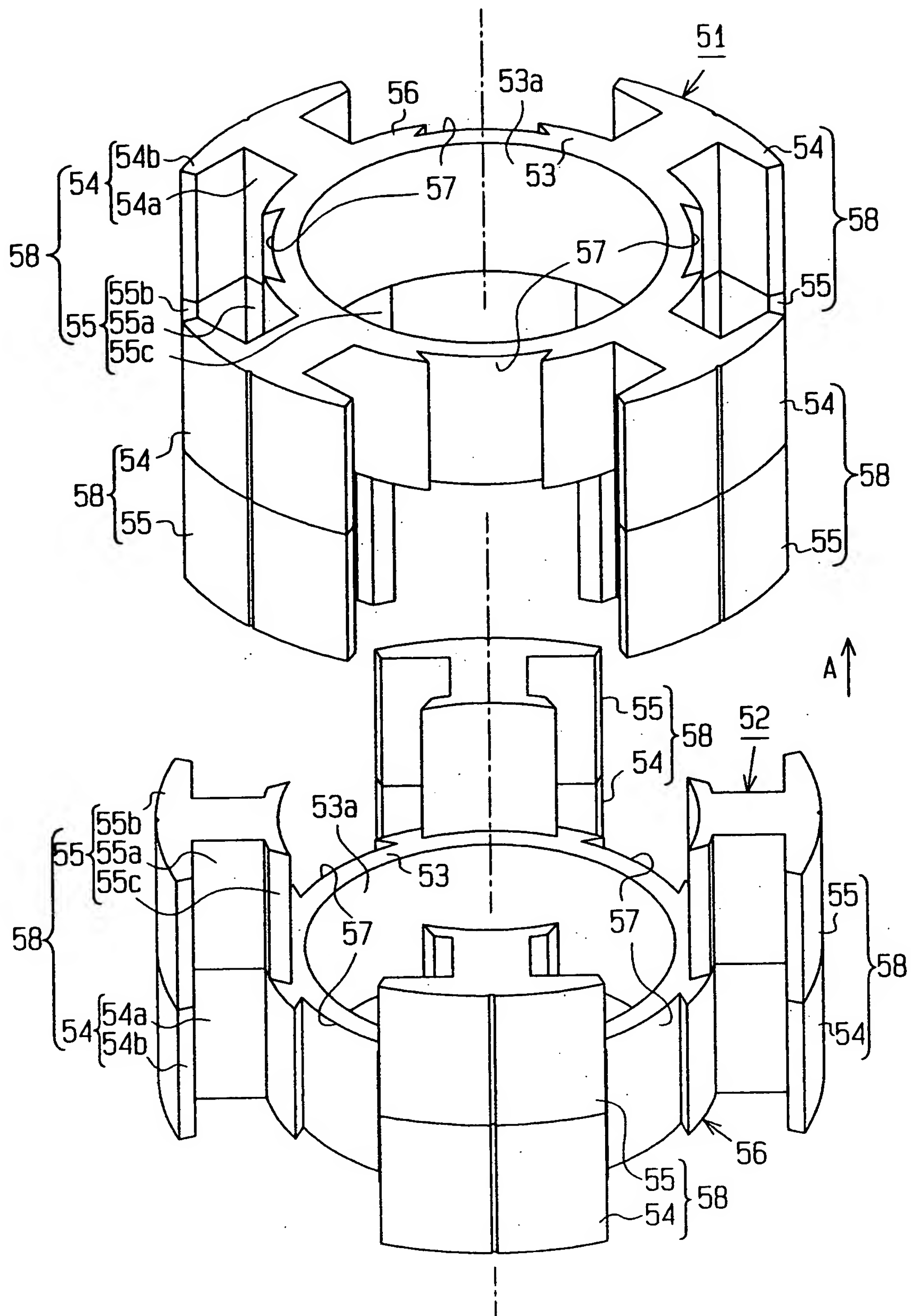




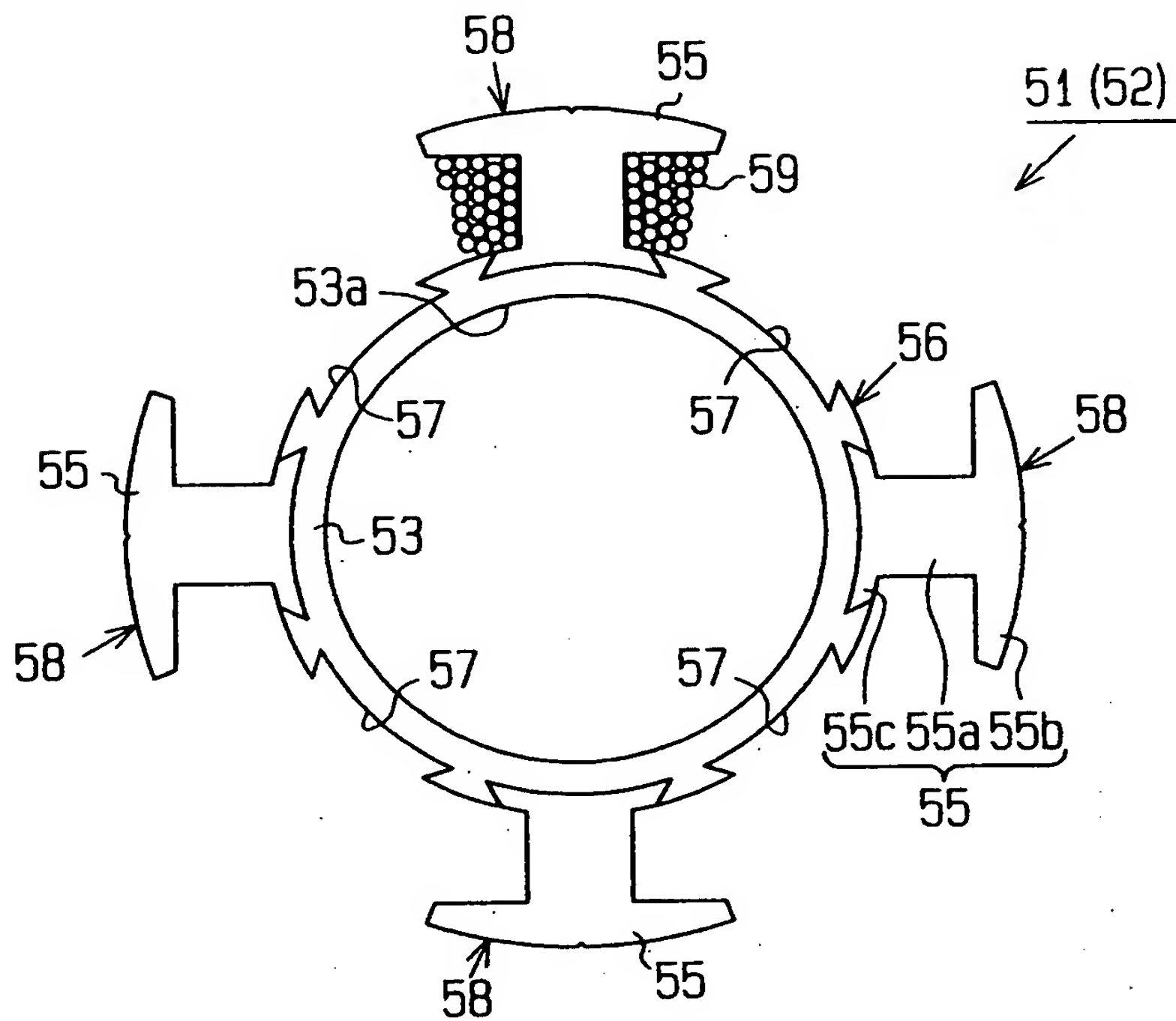
**Fig. 38**



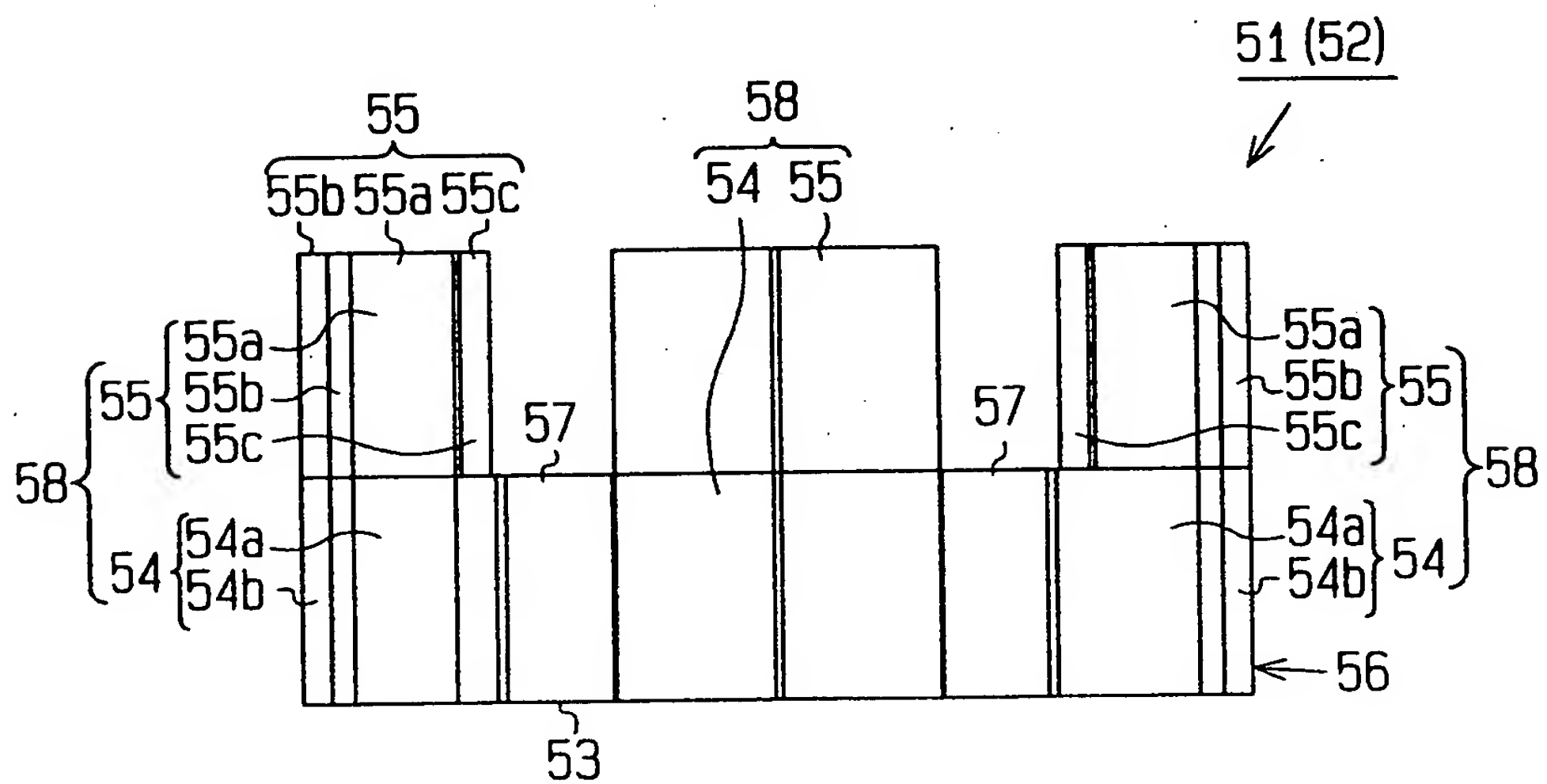
**Fig. 39**



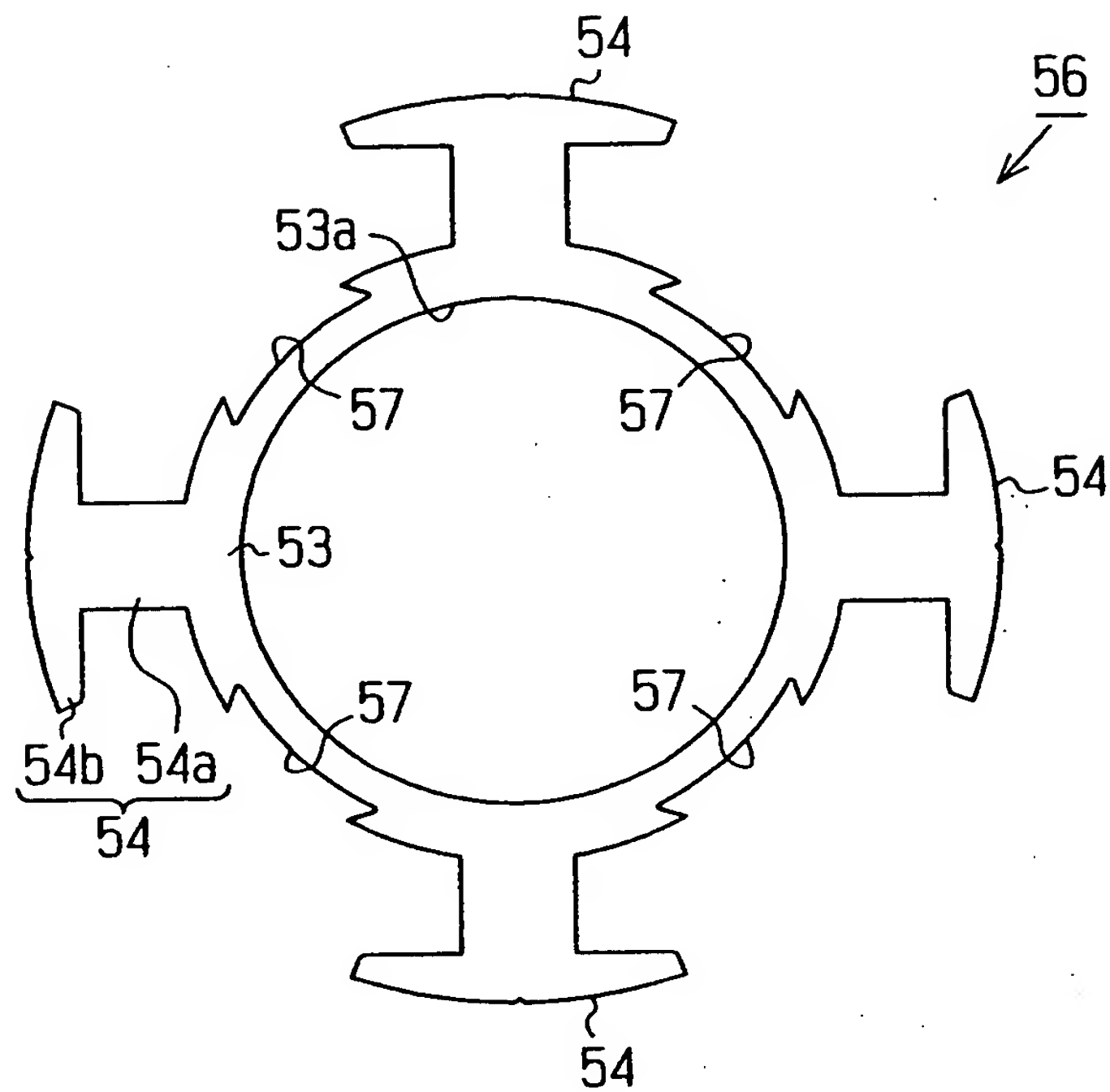
**Fig. 40**



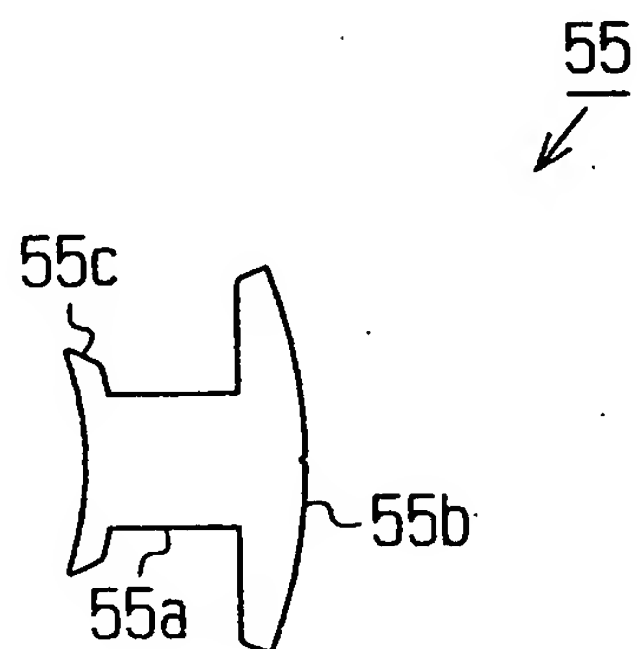
**Fig. 41**



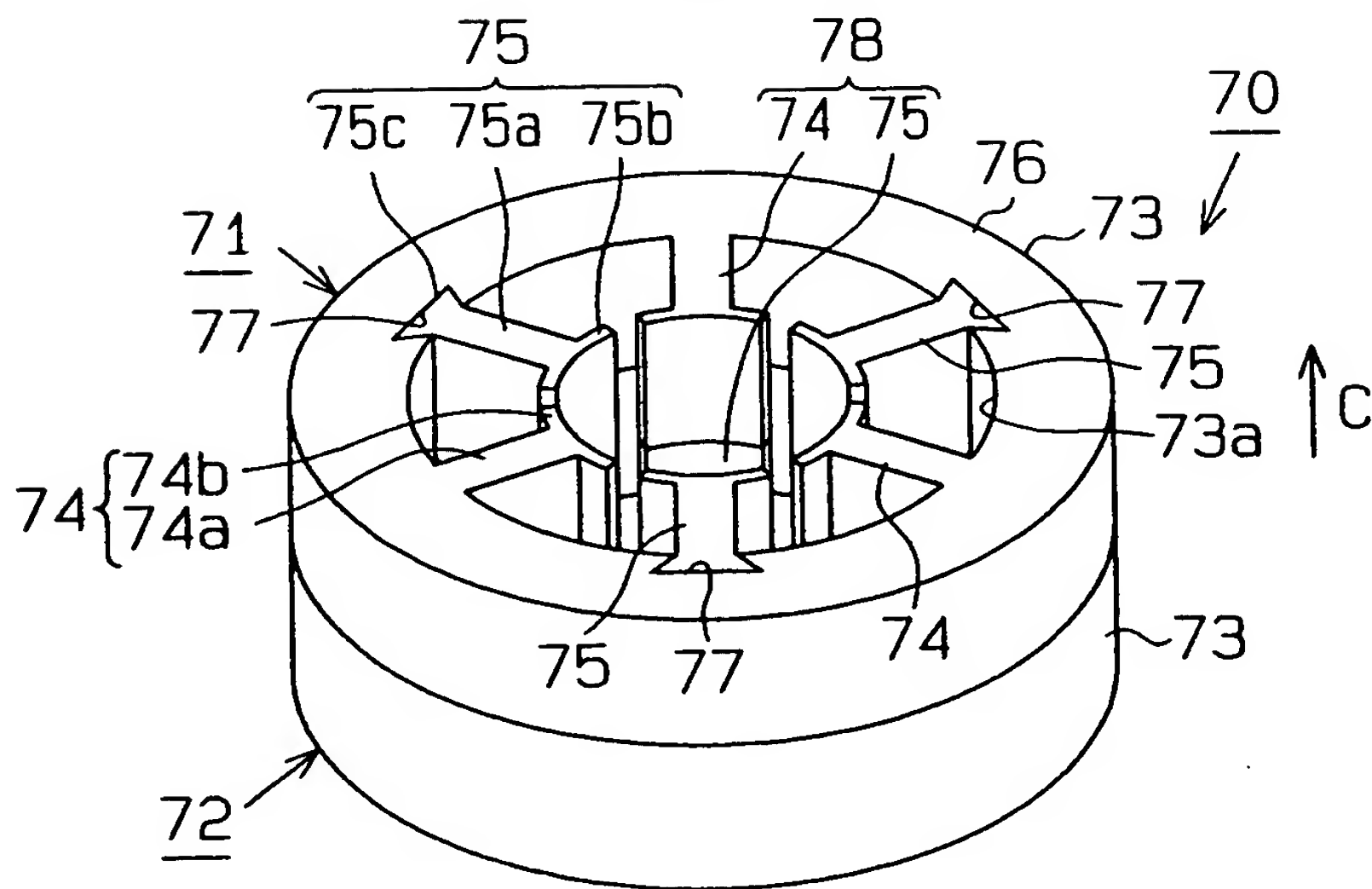
**Fig. 42**



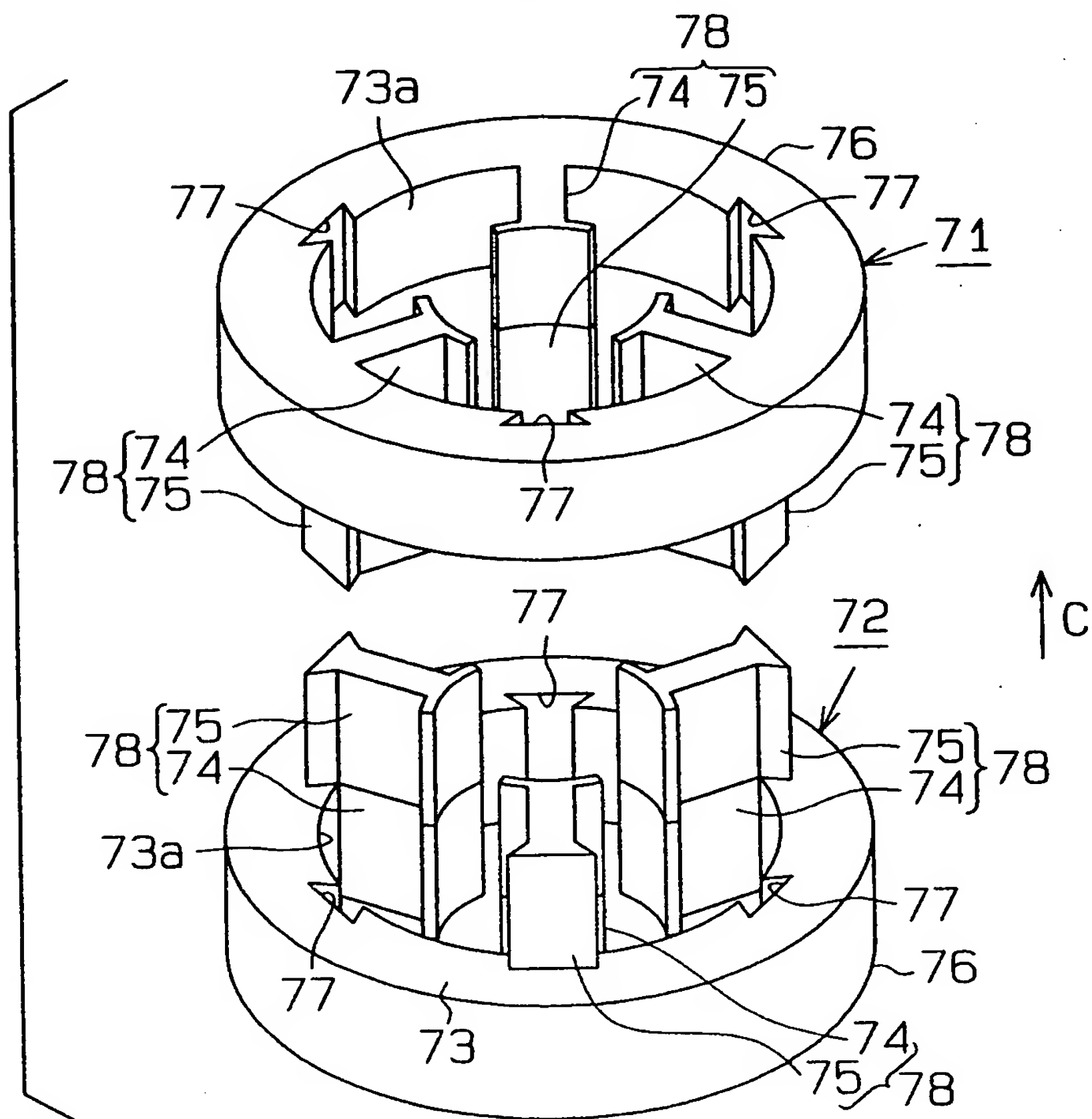
**Fig. 43**



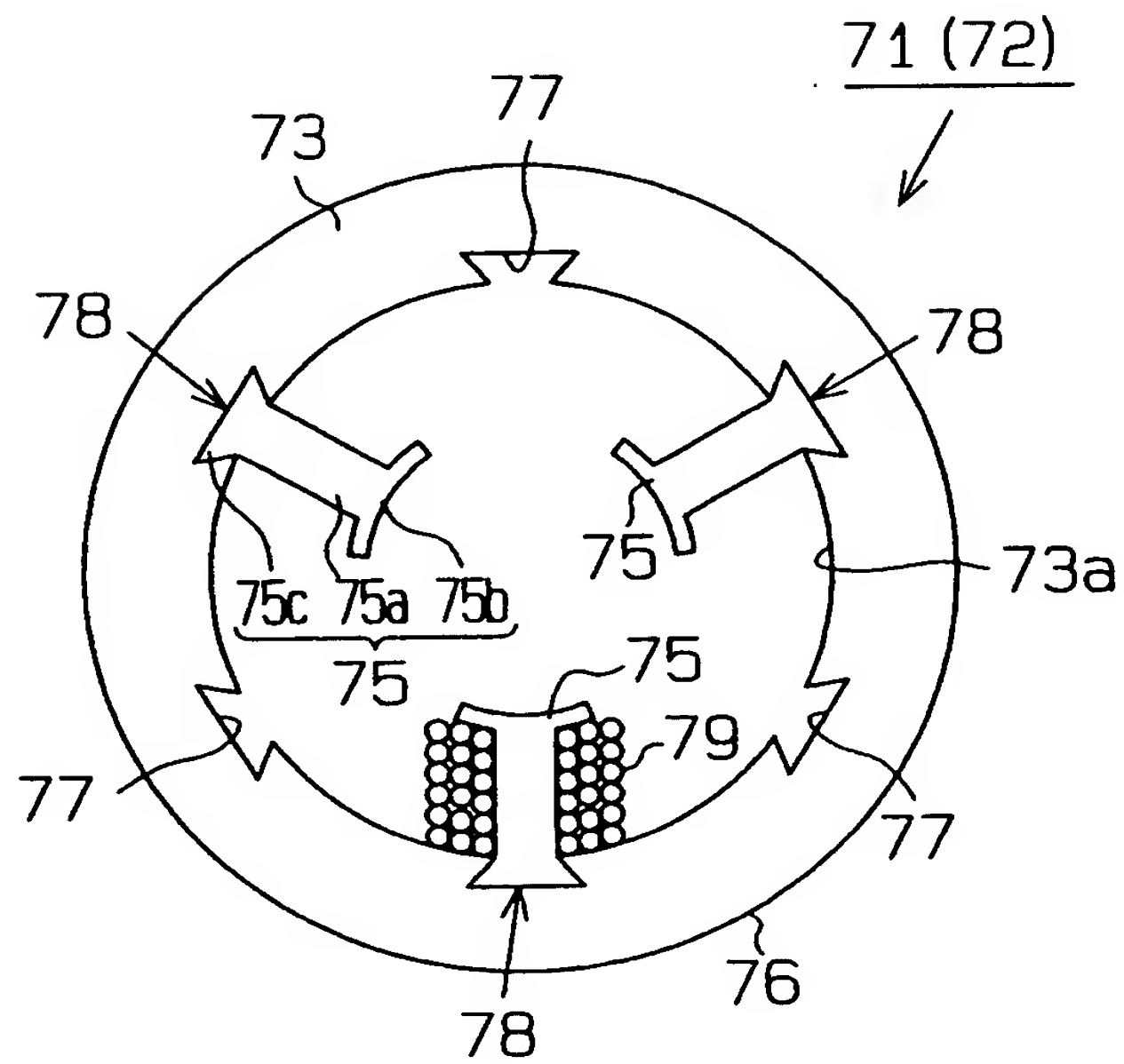
# Fig. 44



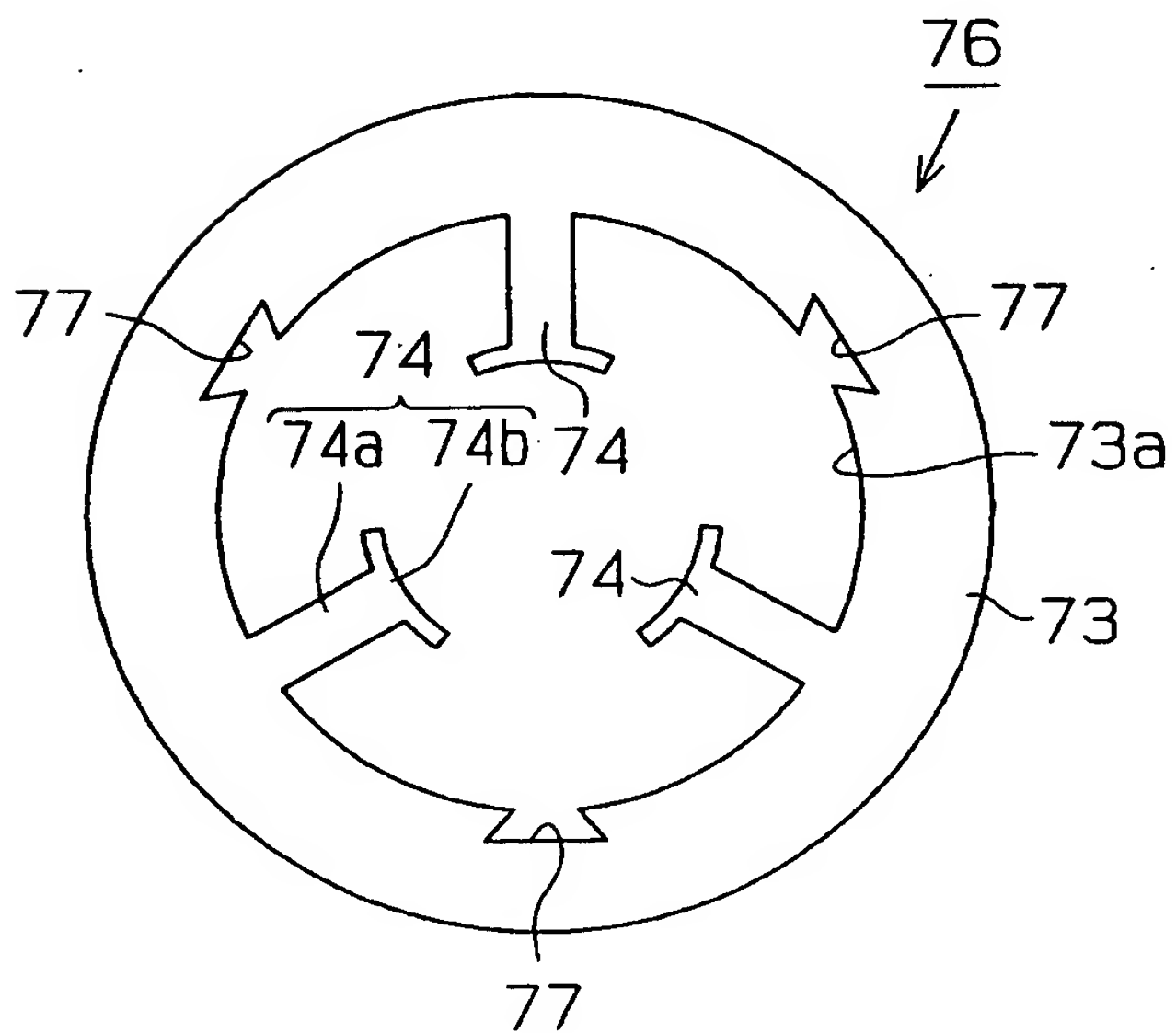
# Fig. 45



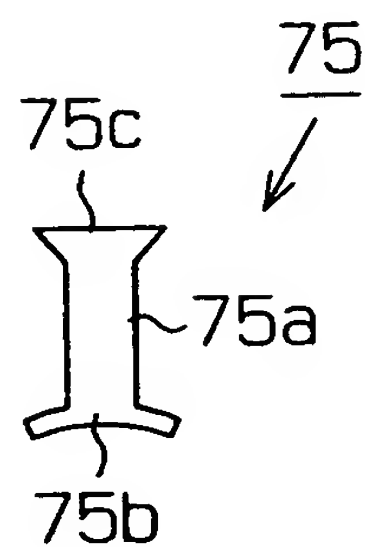
# Fig. 46



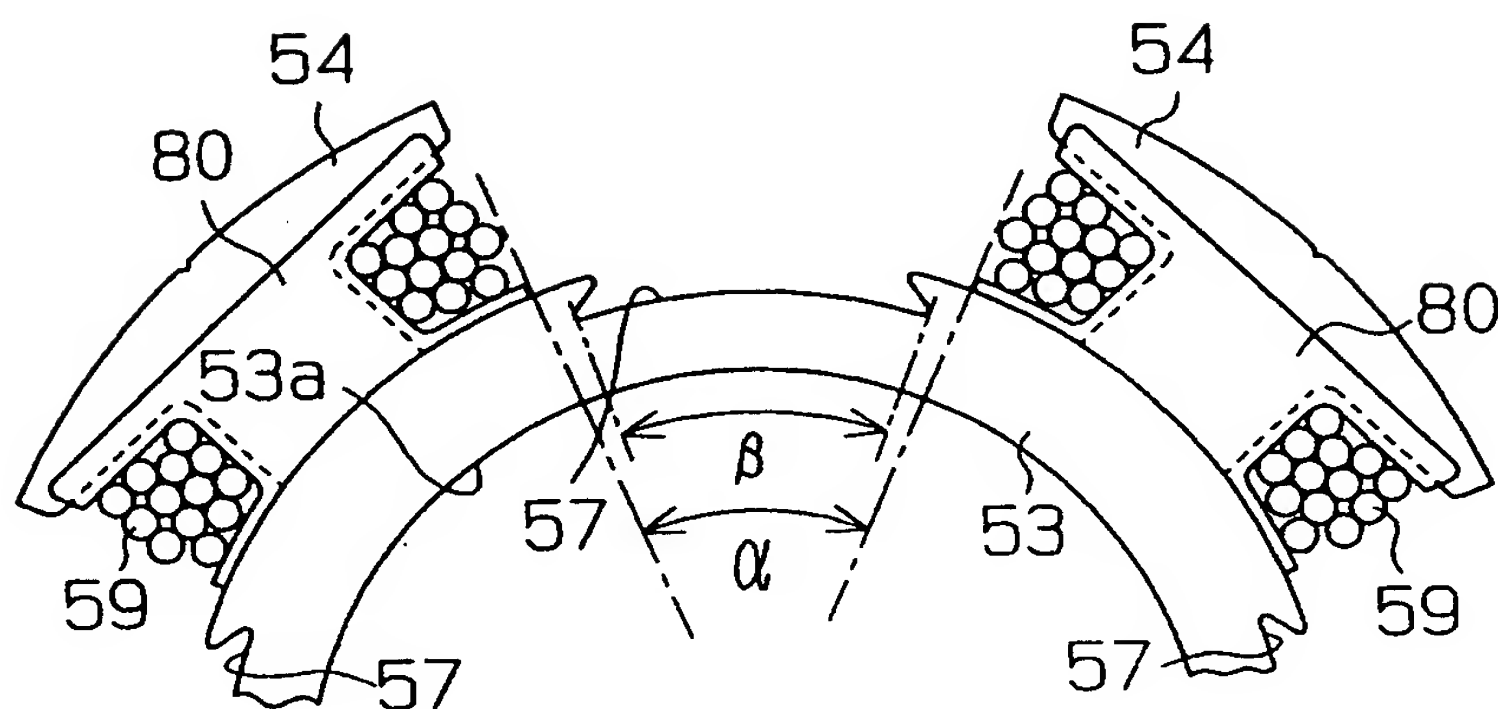
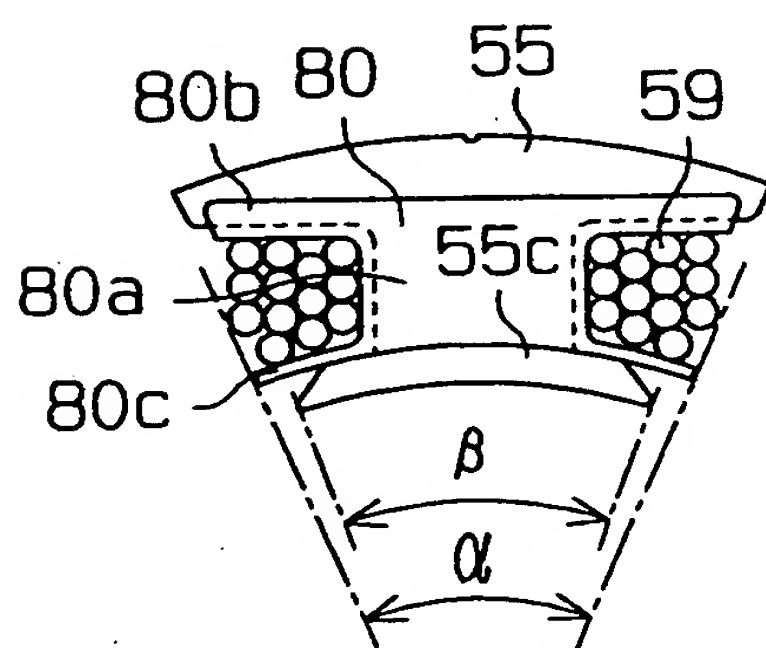
# Fig. 47



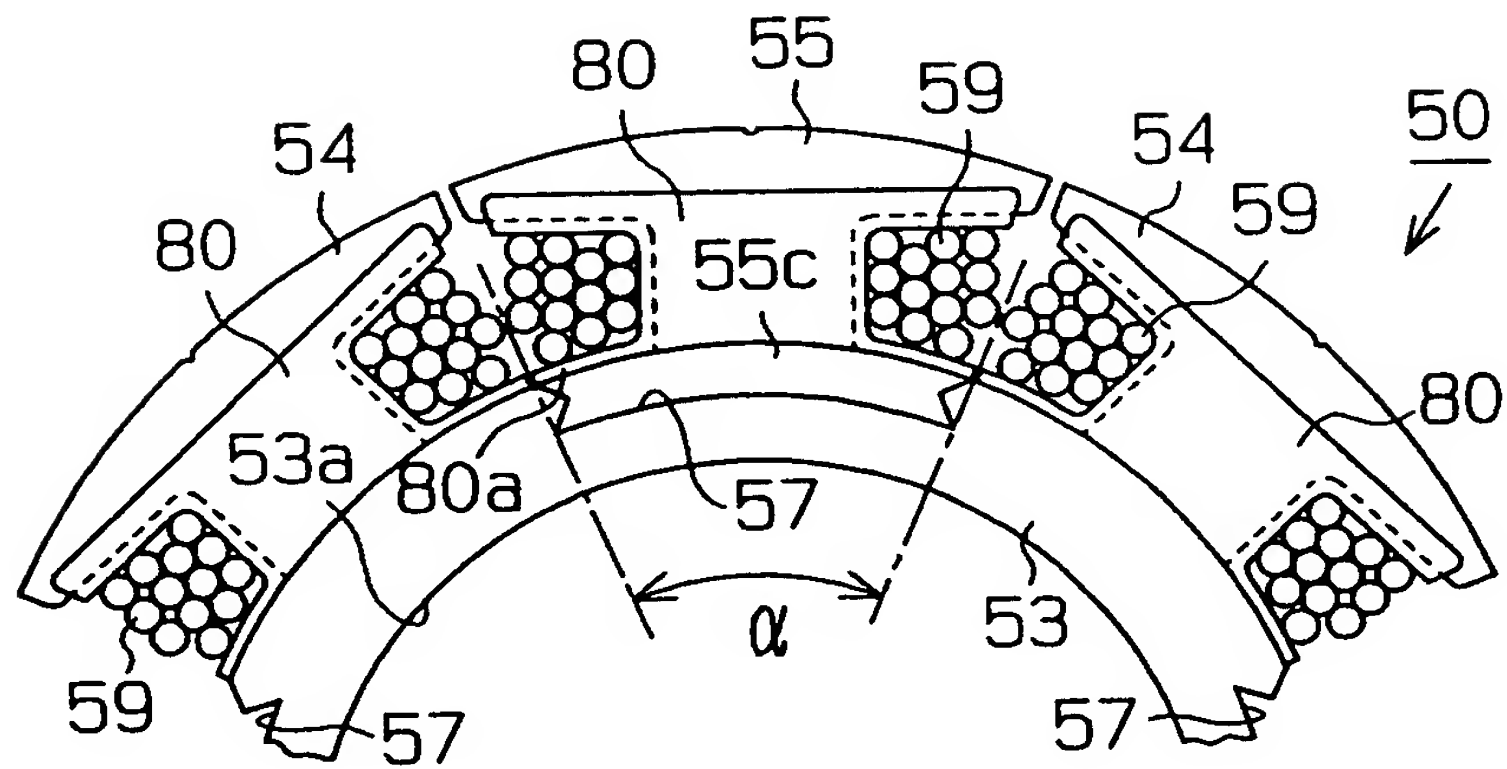
# Fig. 48



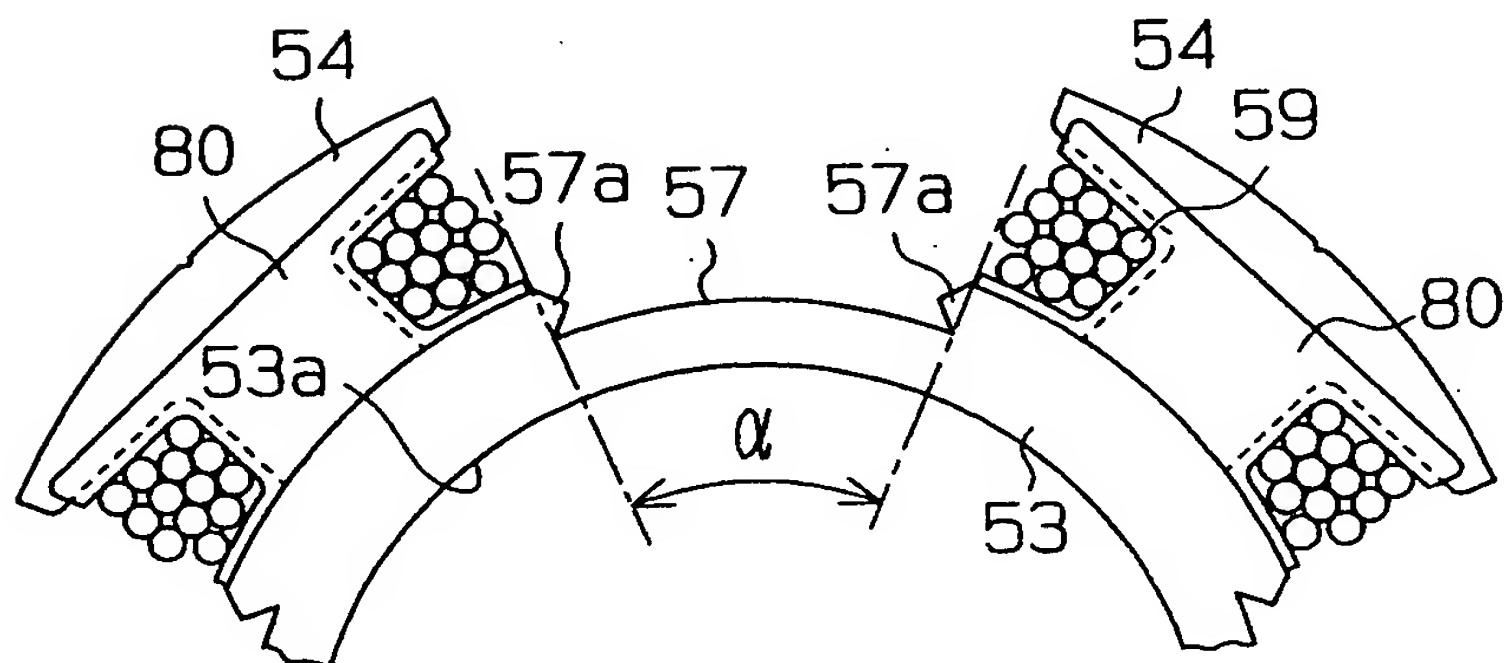
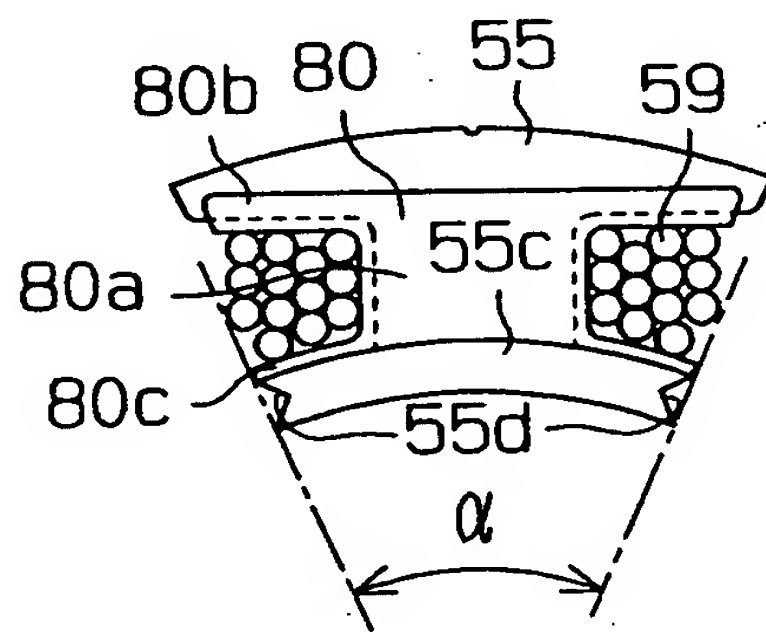
# Fig. 49



# Fig. 50



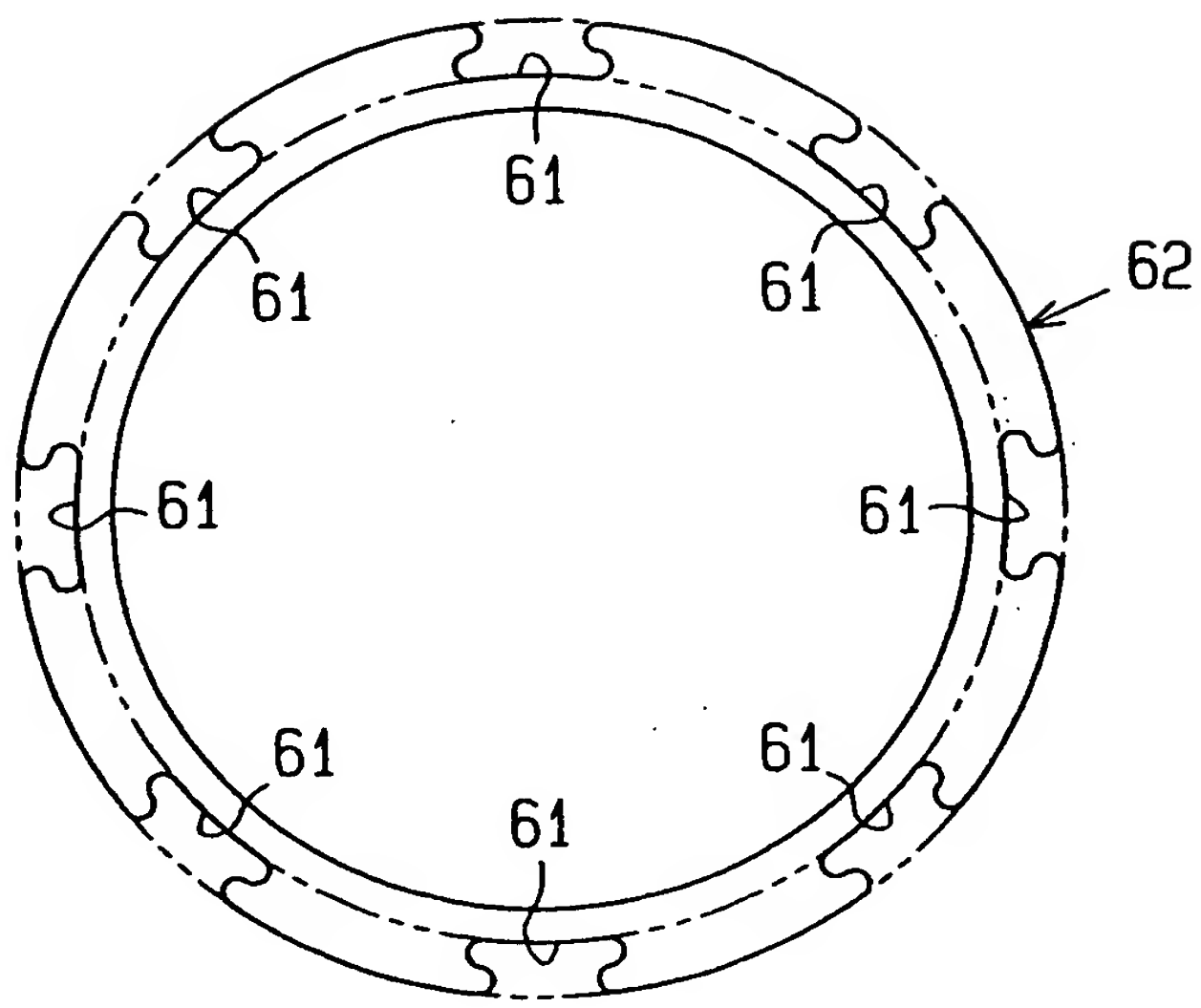
# Fig. 51



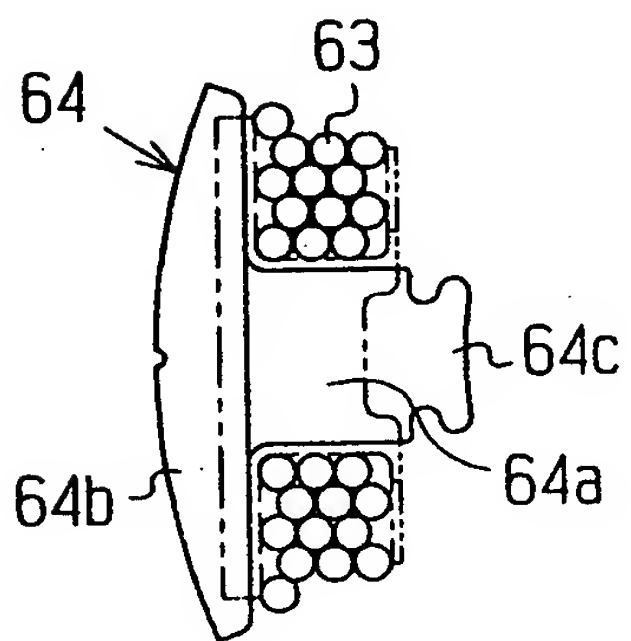




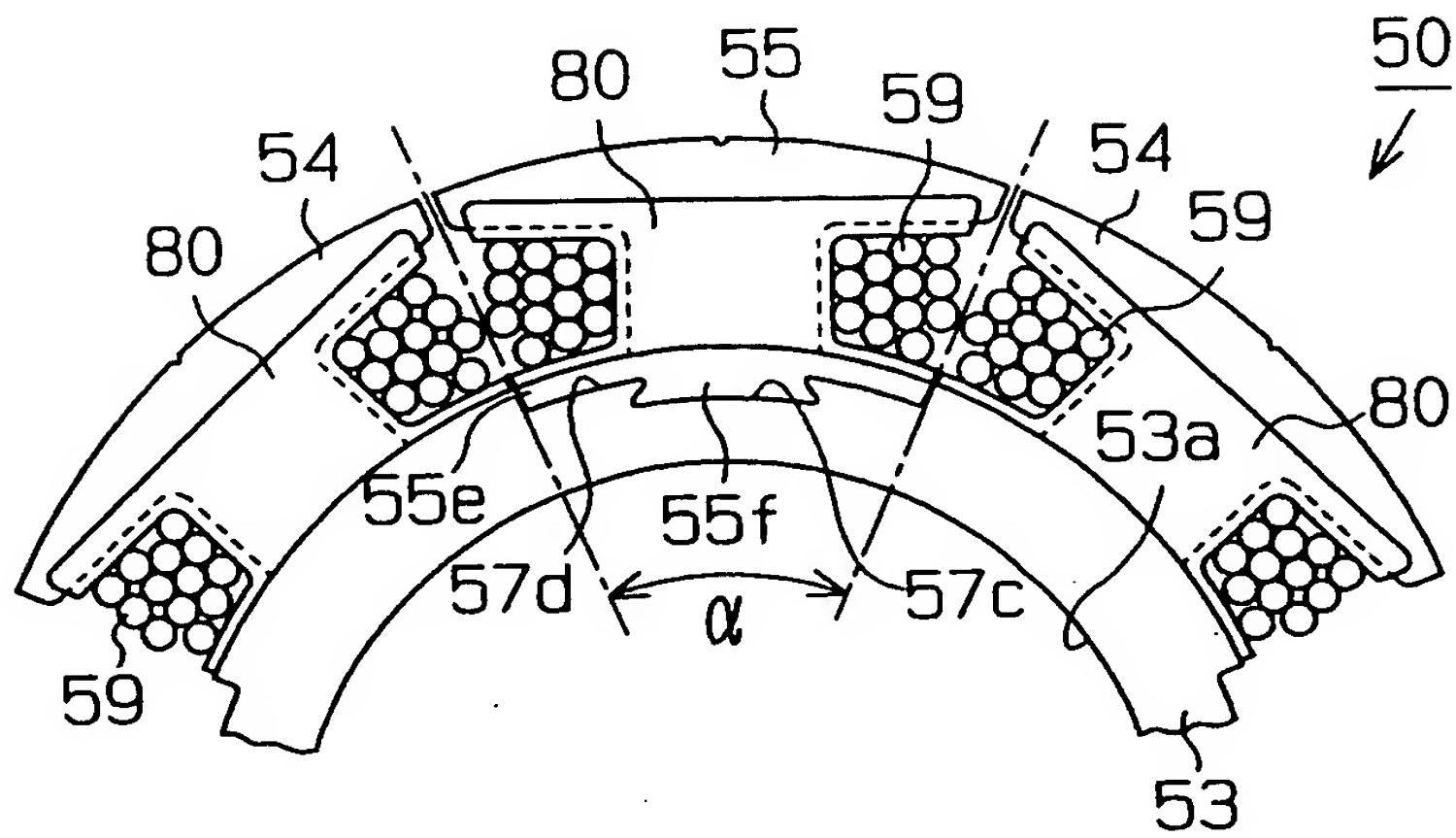
**Fig. 53**



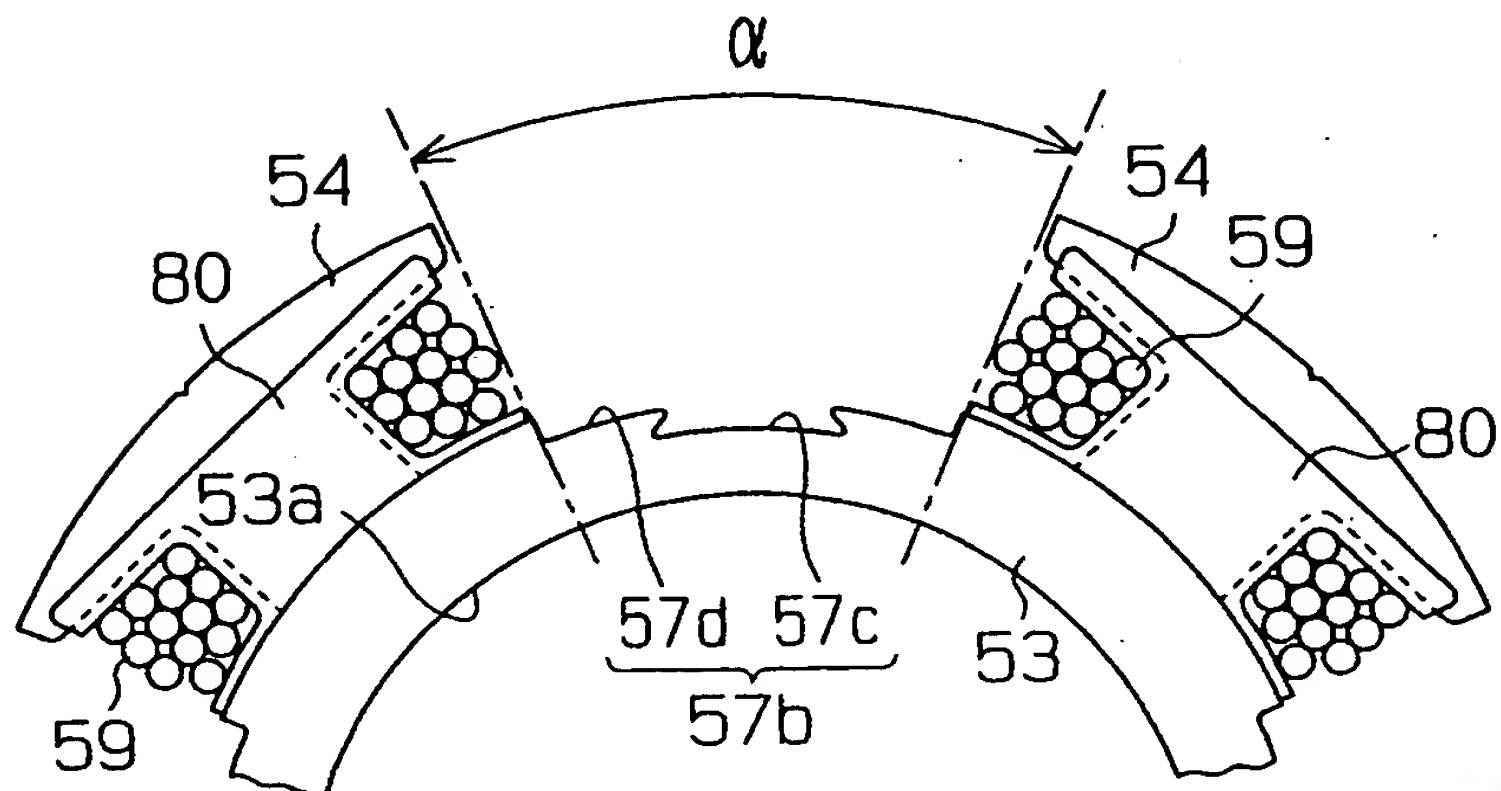
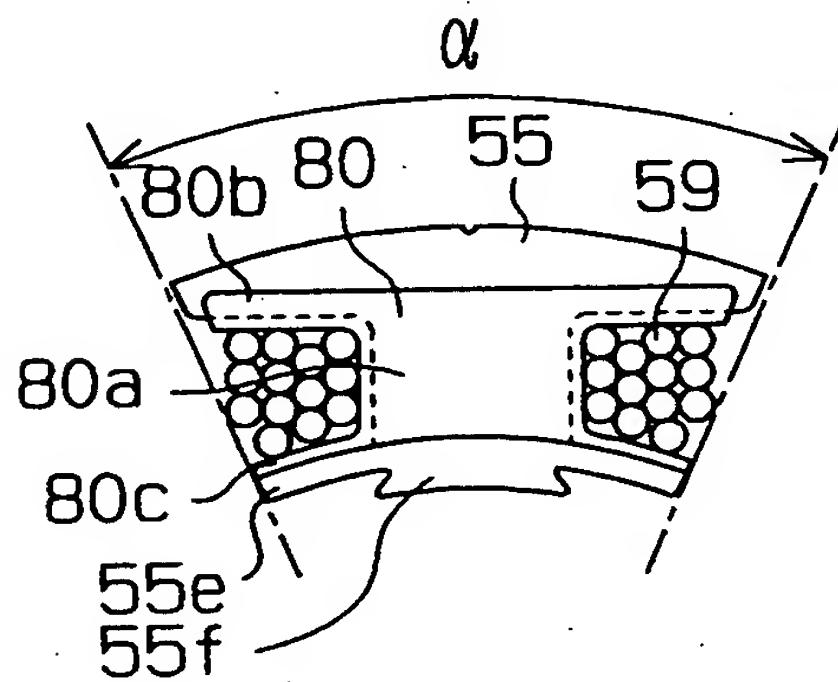
**Fig. 54**



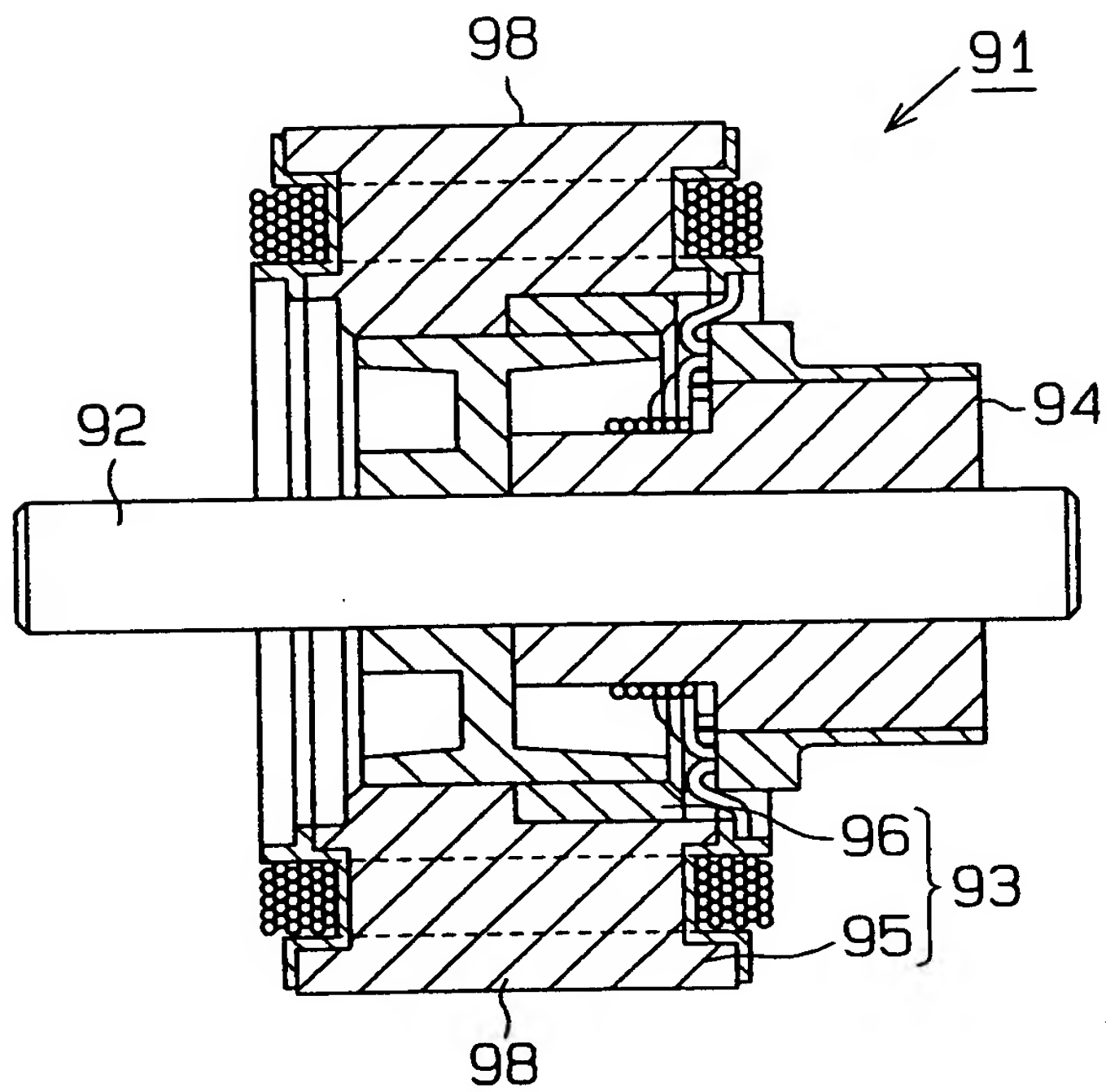
# Fig. 55



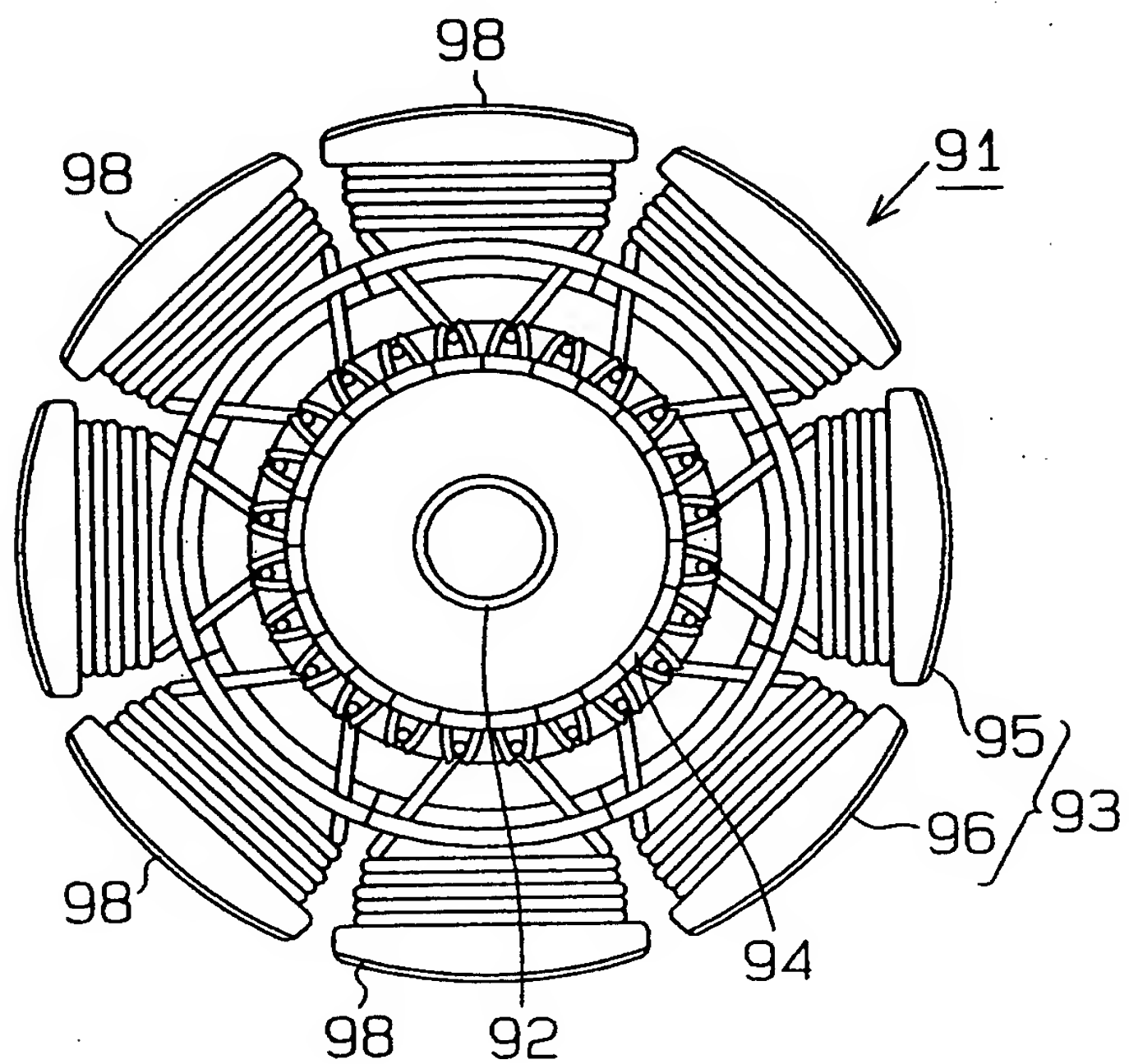
# Fig. 56



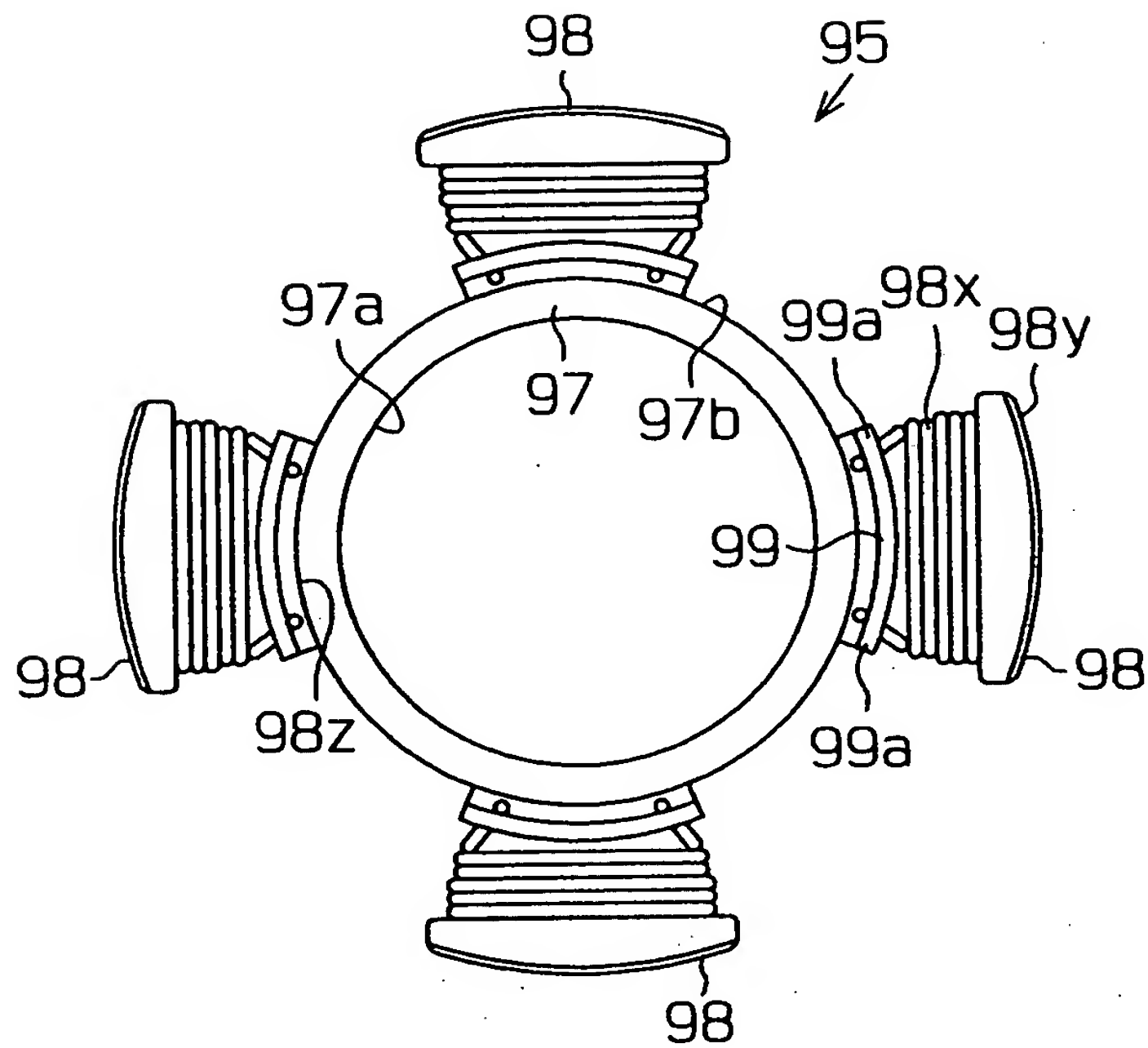
**Fig. 57**



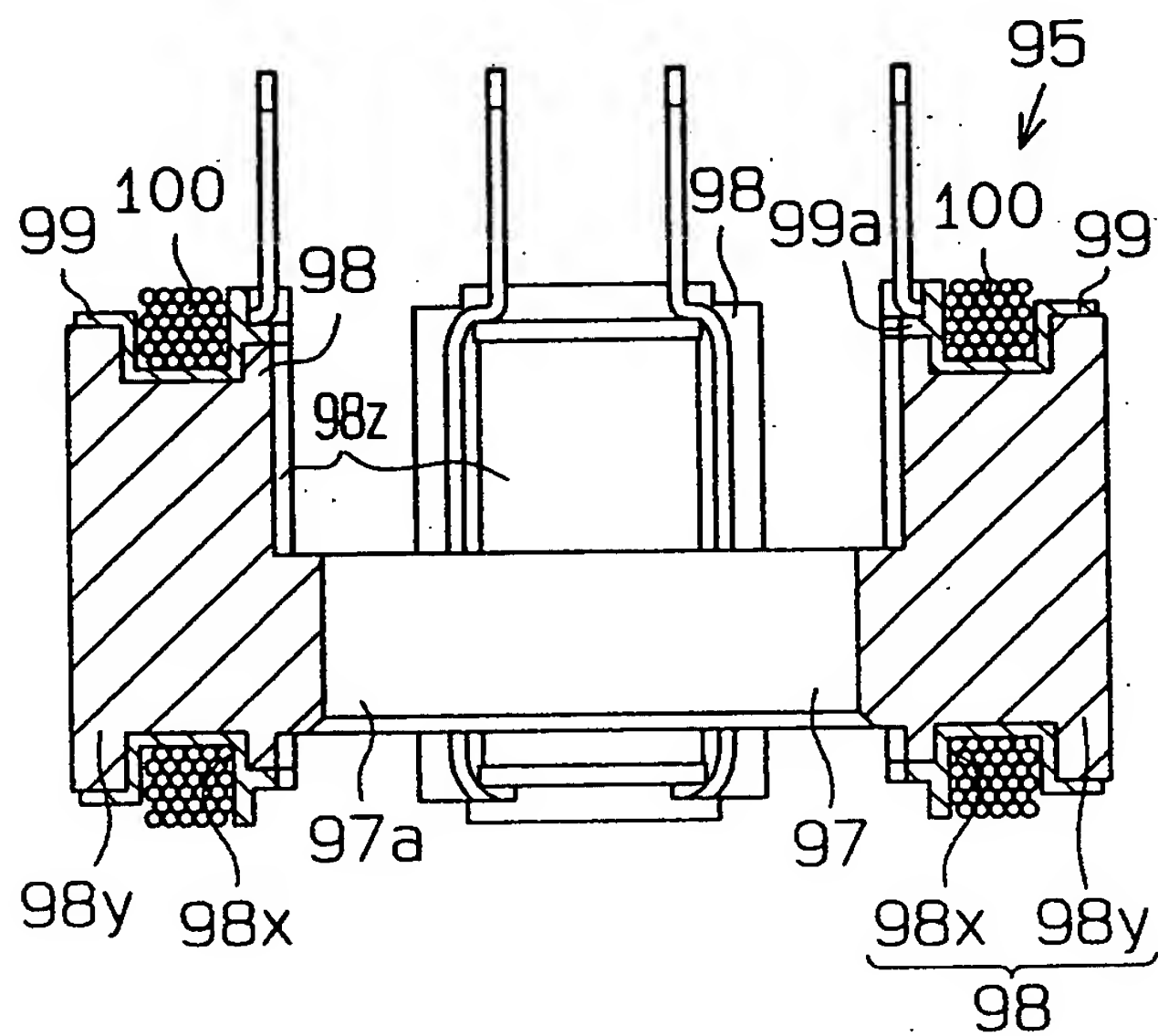
**Fig. 58**



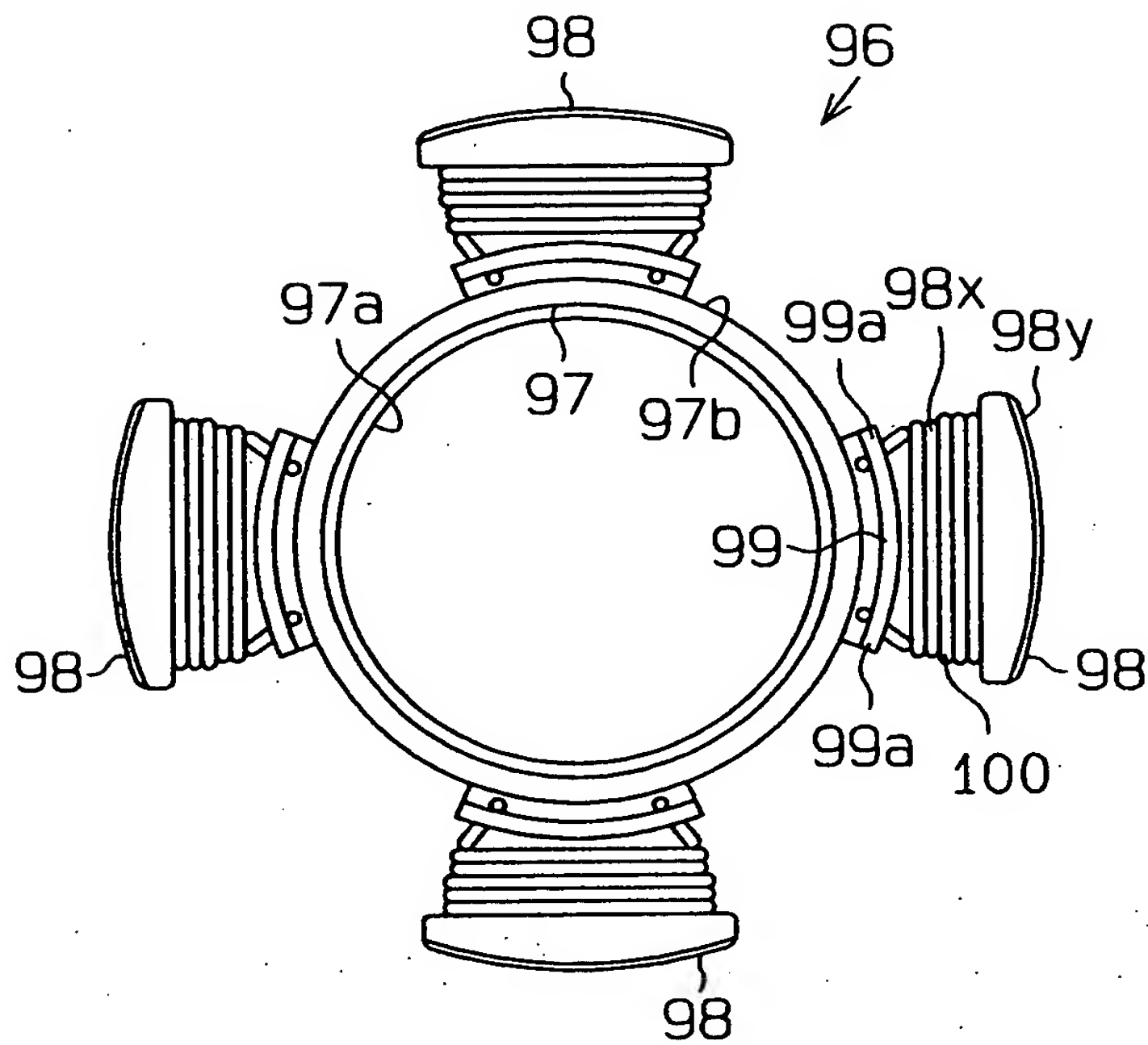
**Fig. 59 (a)**



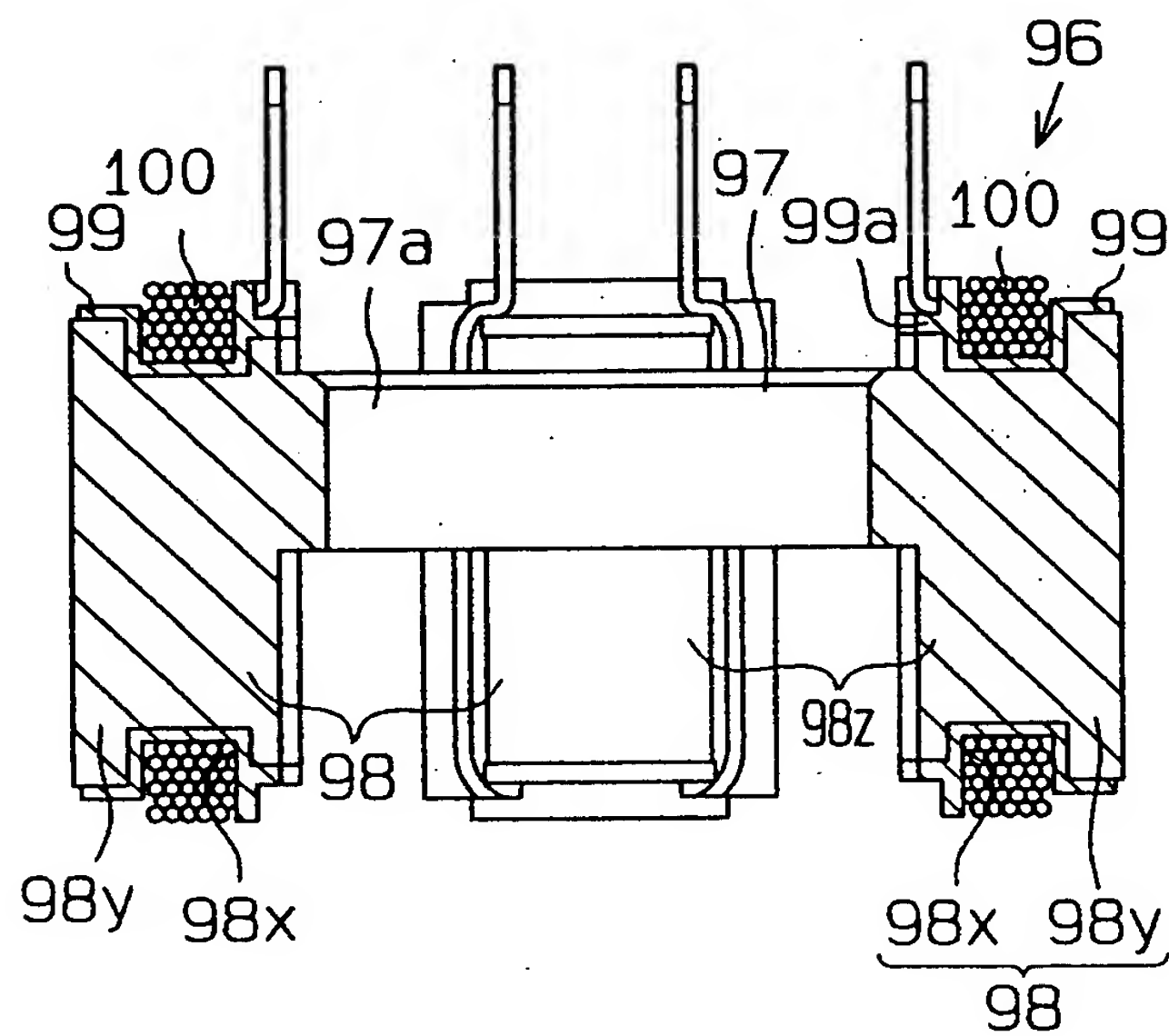
**Fig. 59 (b)**



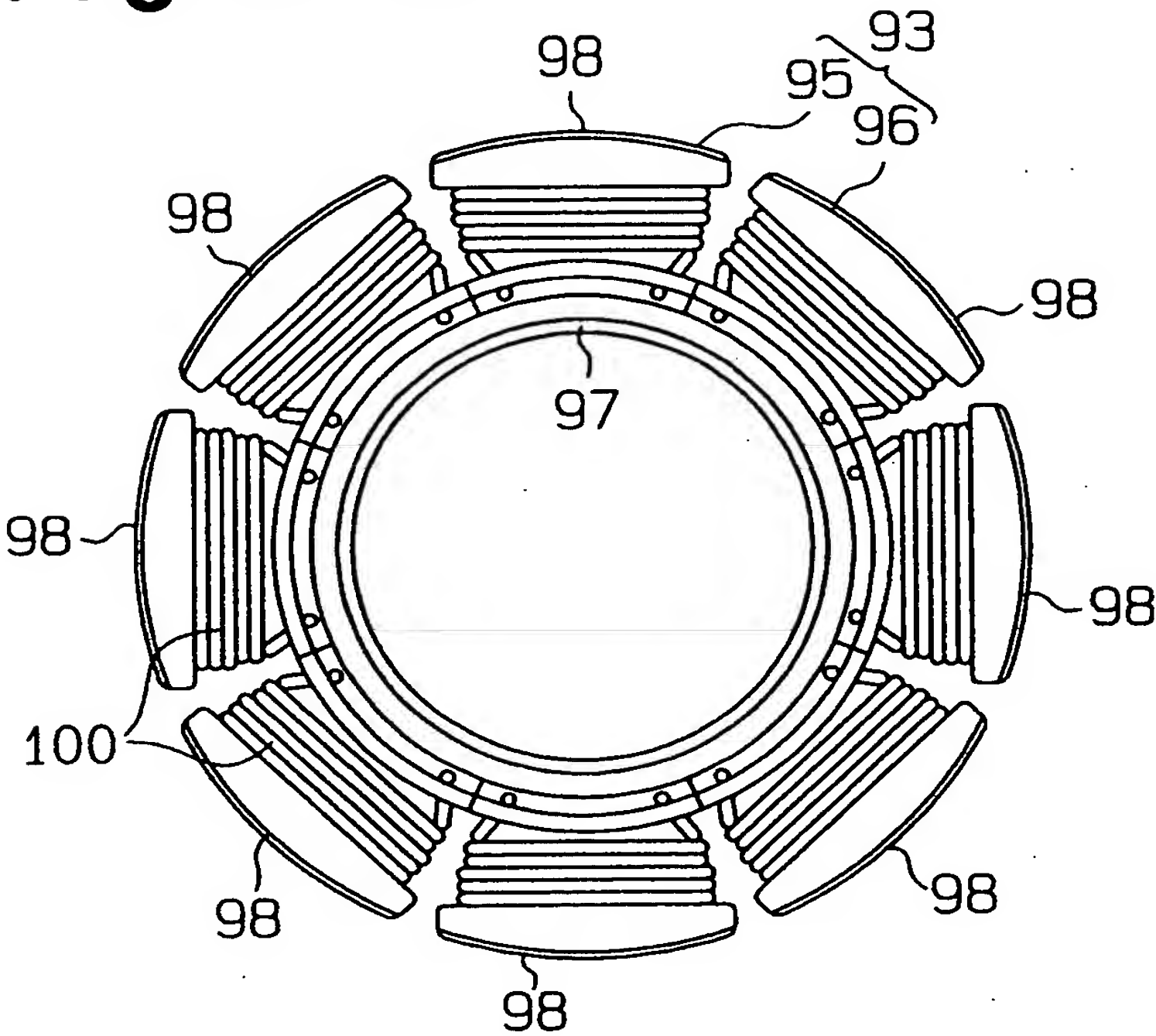
**Fig. 60 (a)**



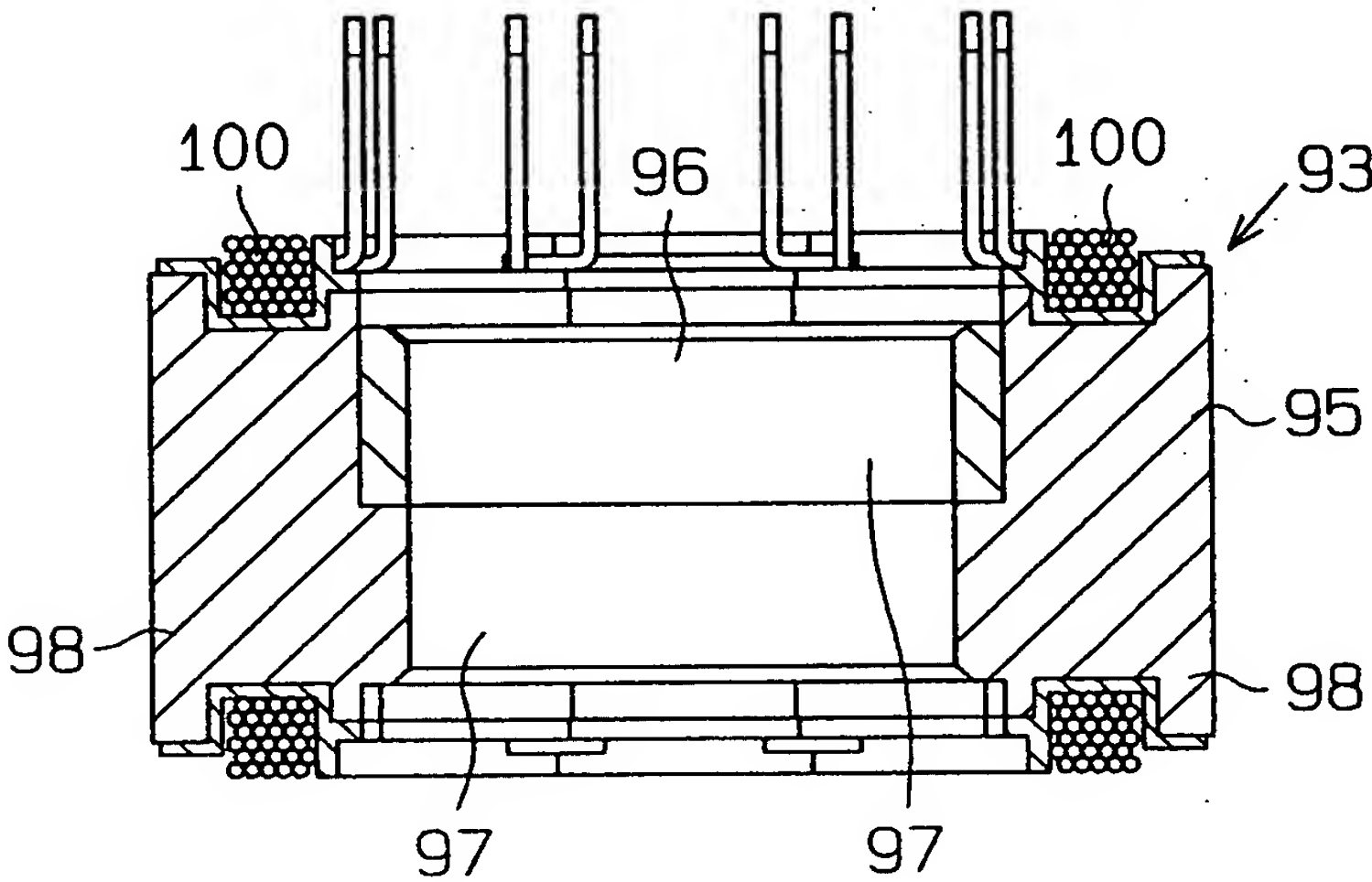
**Fig. 60 (b)**



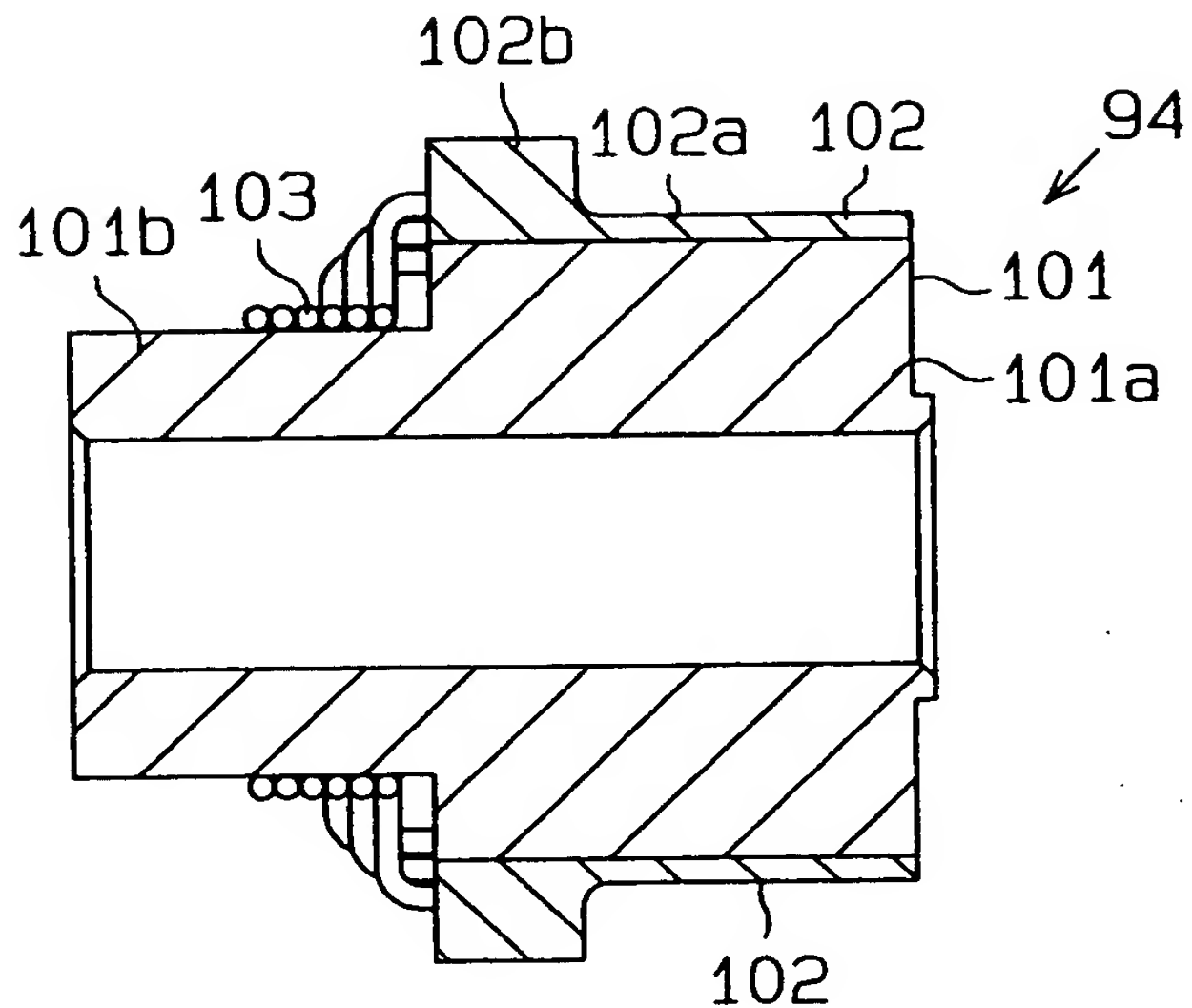
**Fig. 61 (a)**



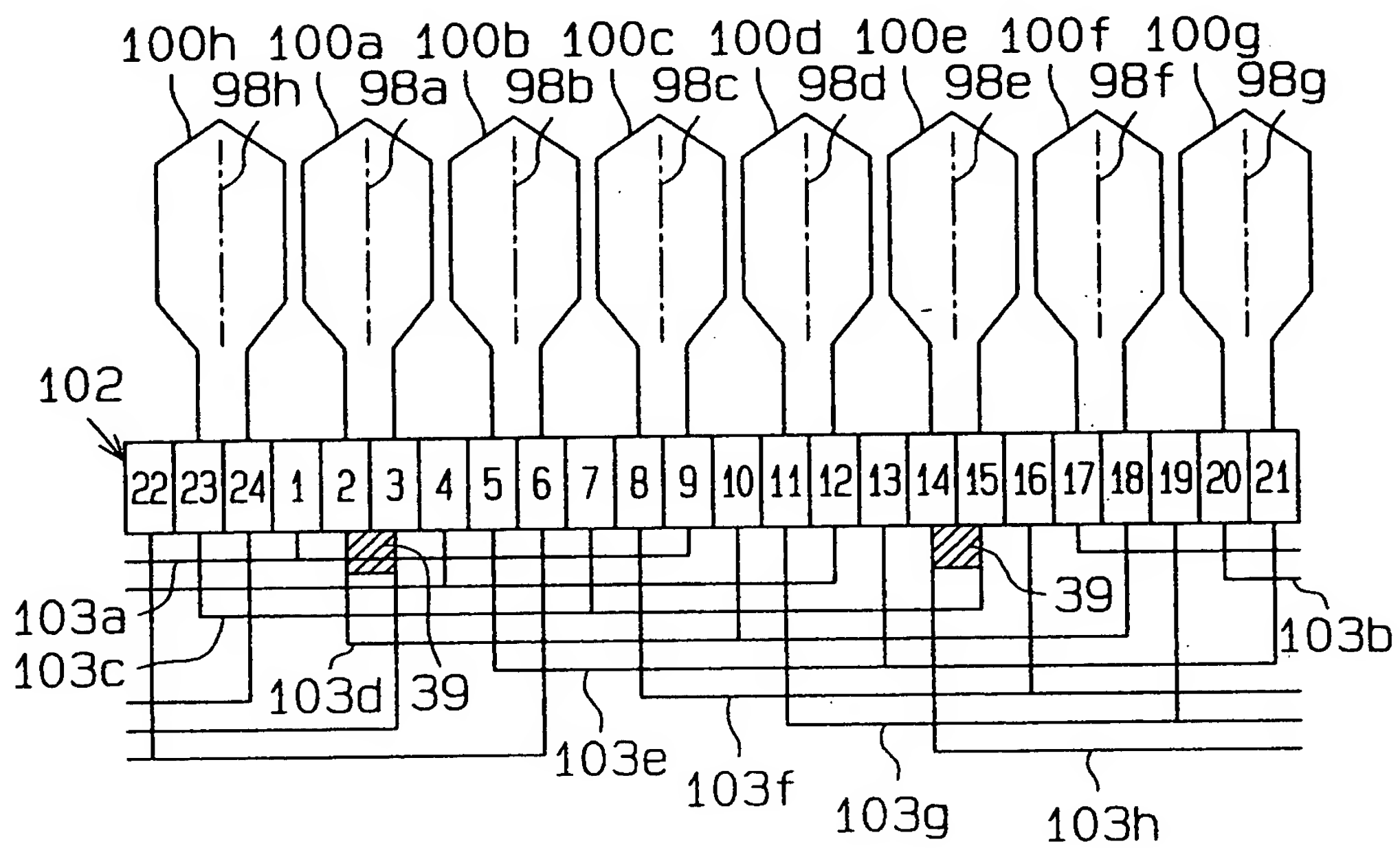
**Fig. 61 (b)**



# Fig. 62

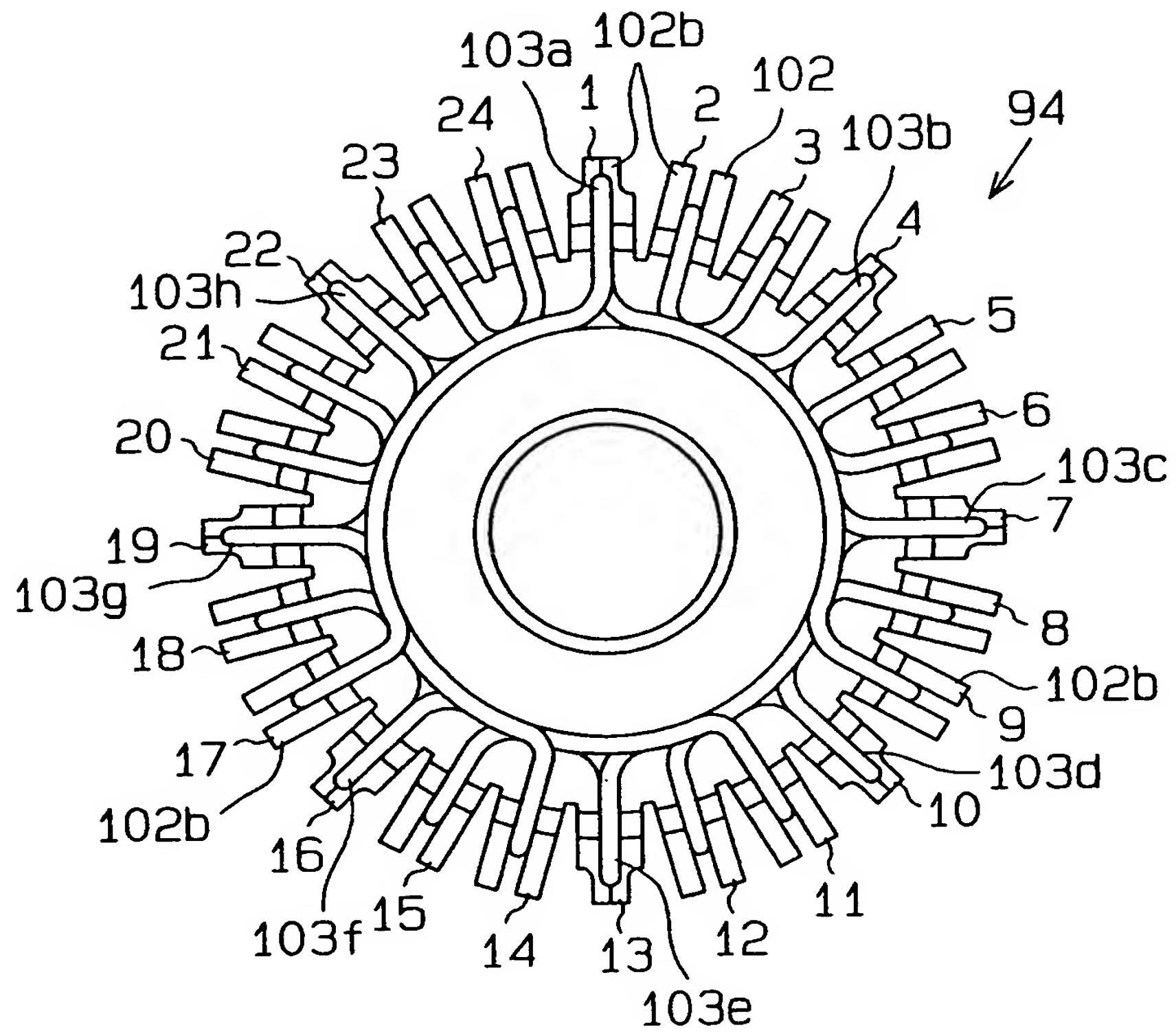


# Fig. 63



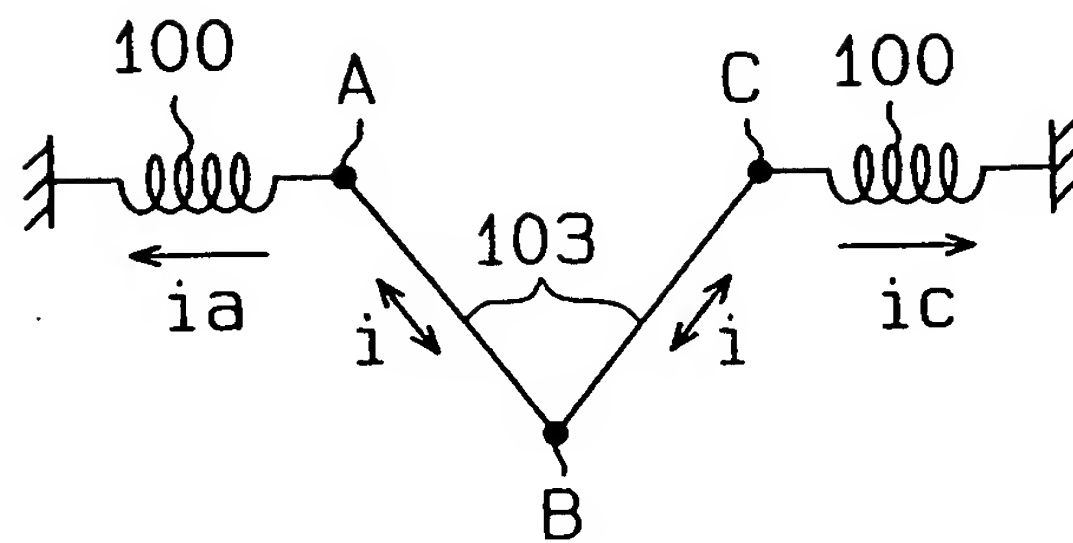


**Fig. 64**

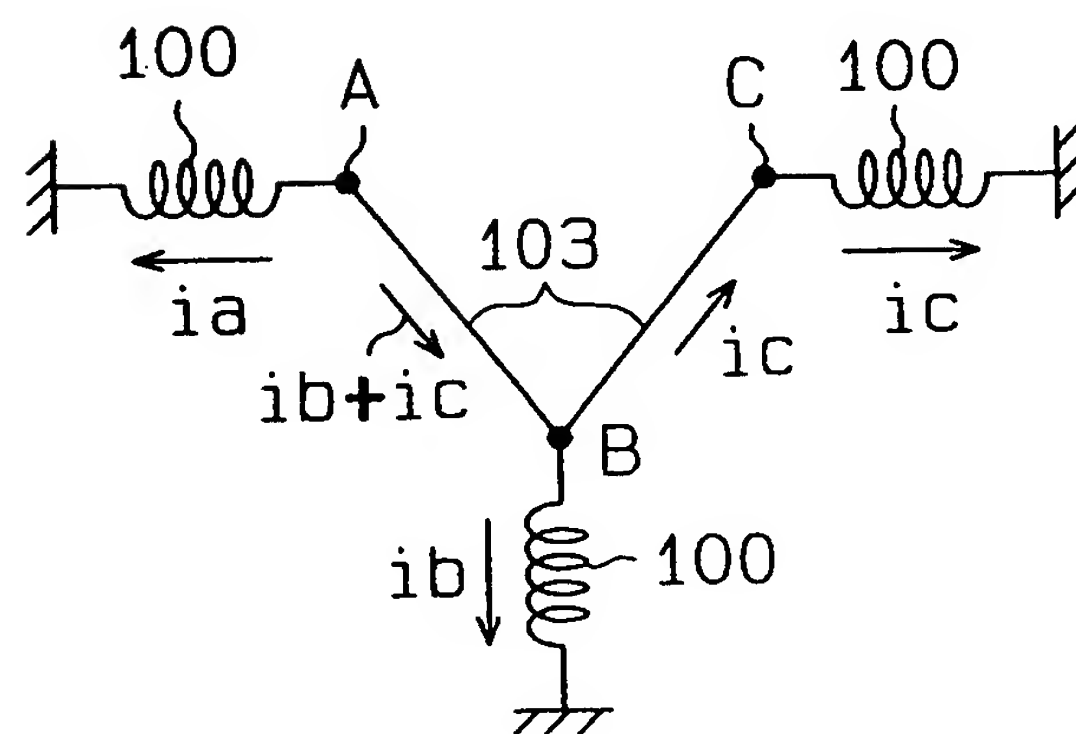


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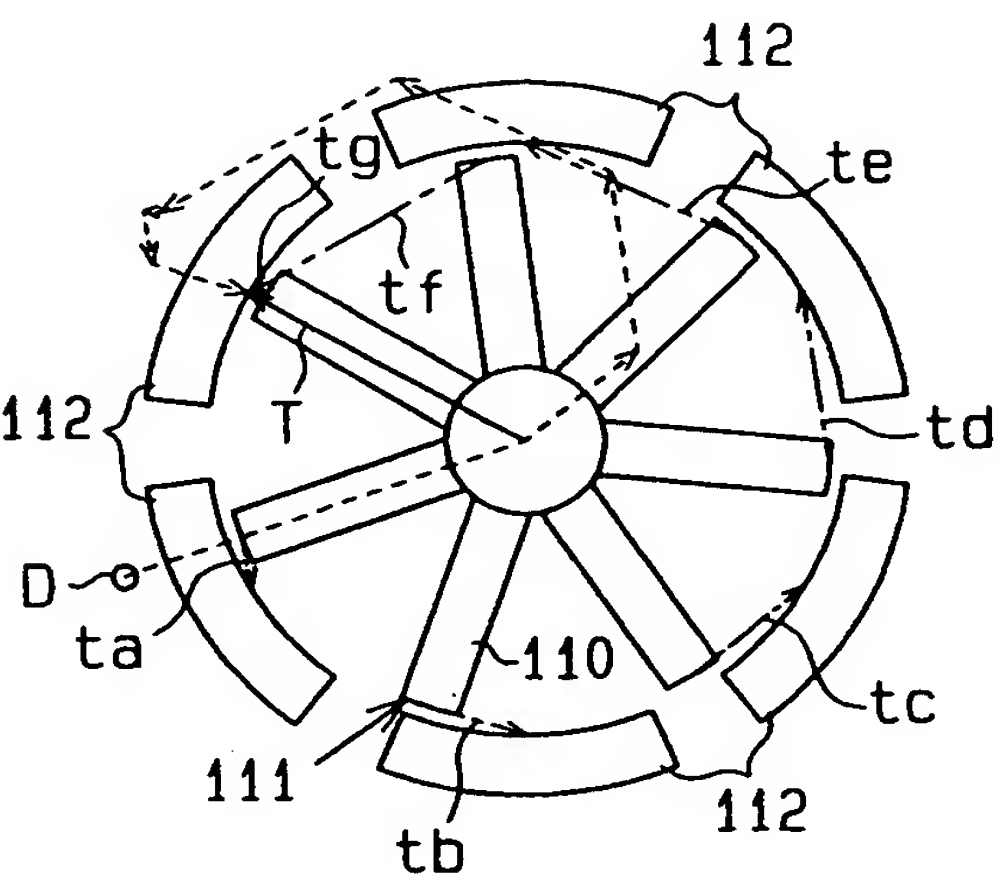
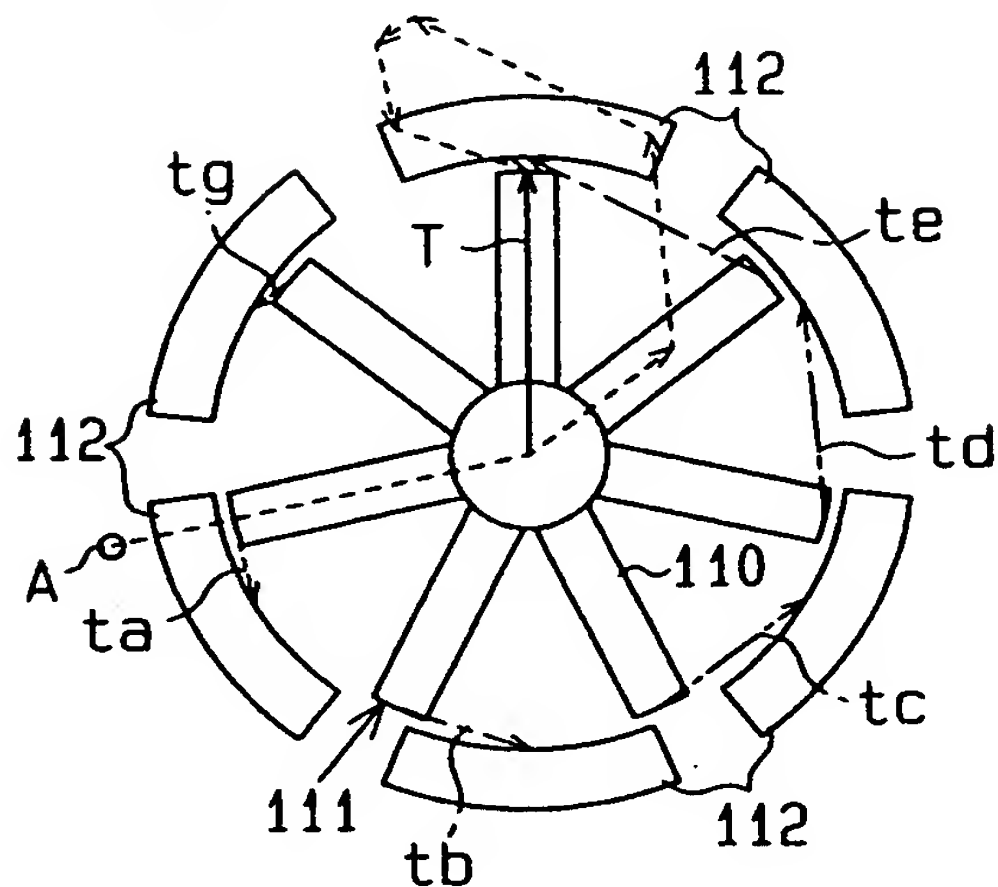
**Fig. 65**



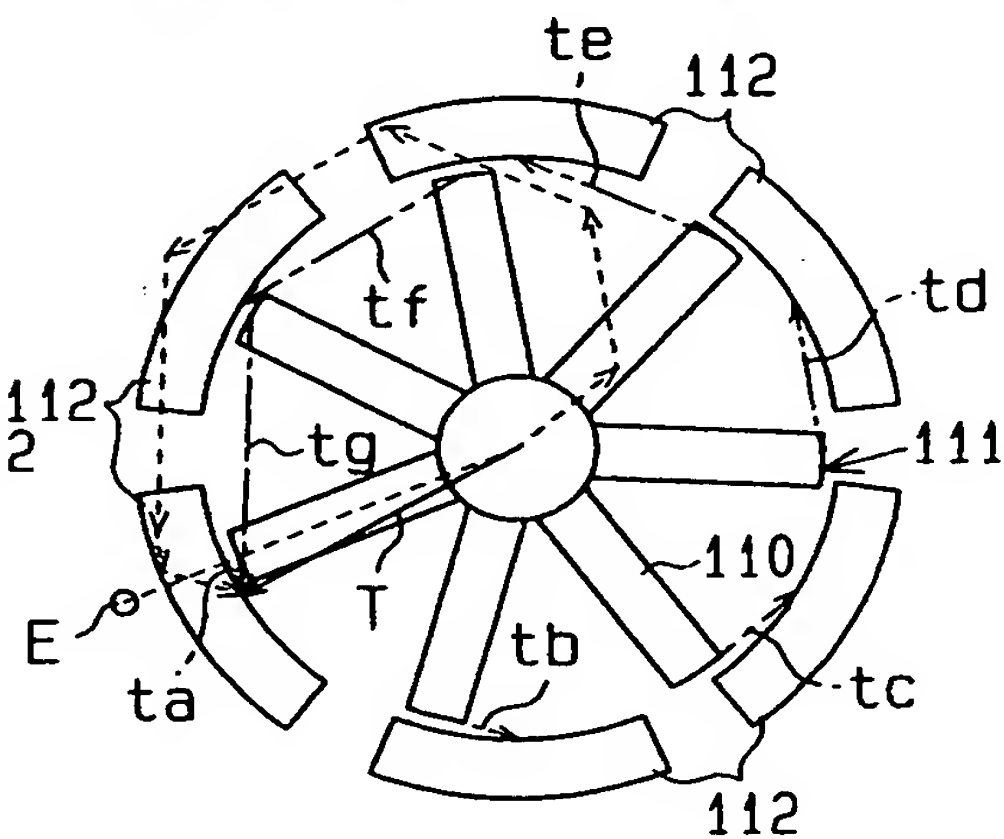
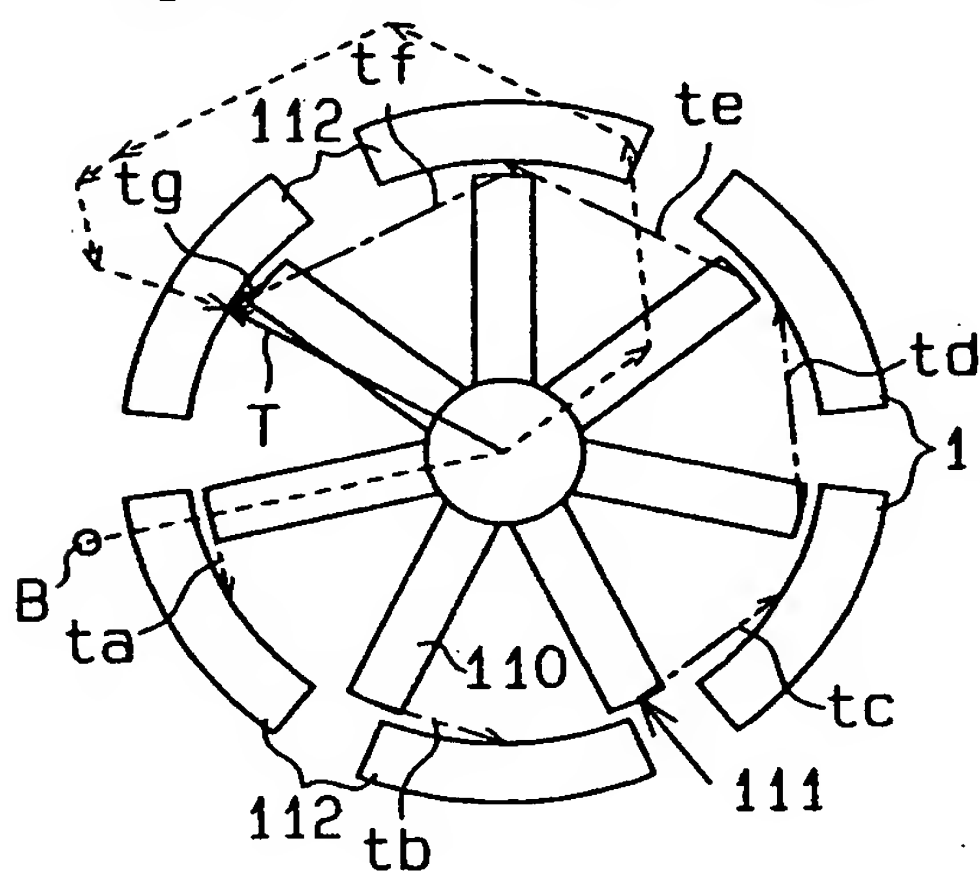
**Fig. 66**



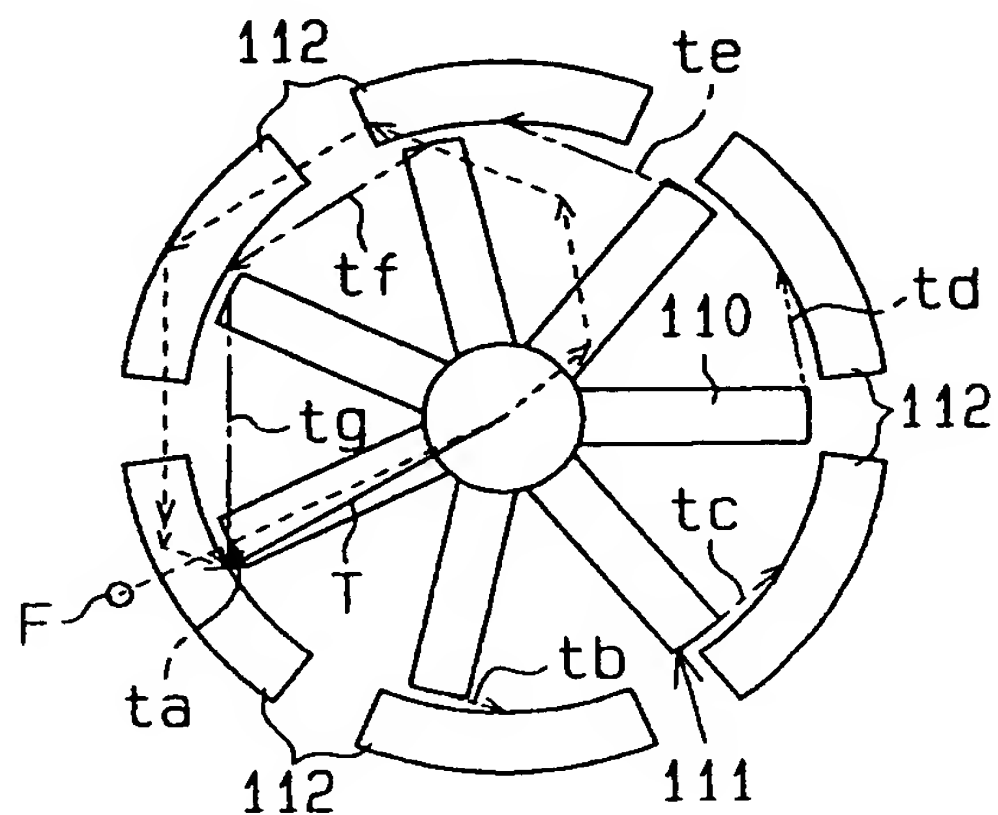
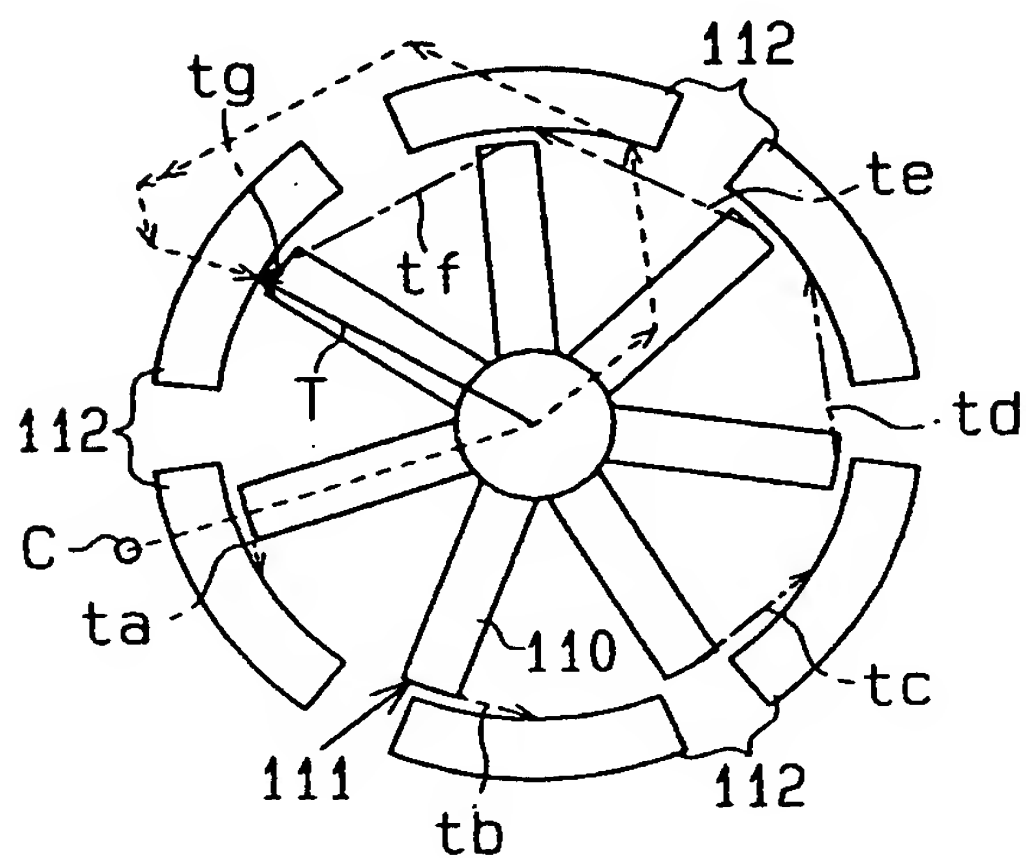
**Fig.67 (a) (Prior Art)      Fig.67 (d) (Prior Art)**



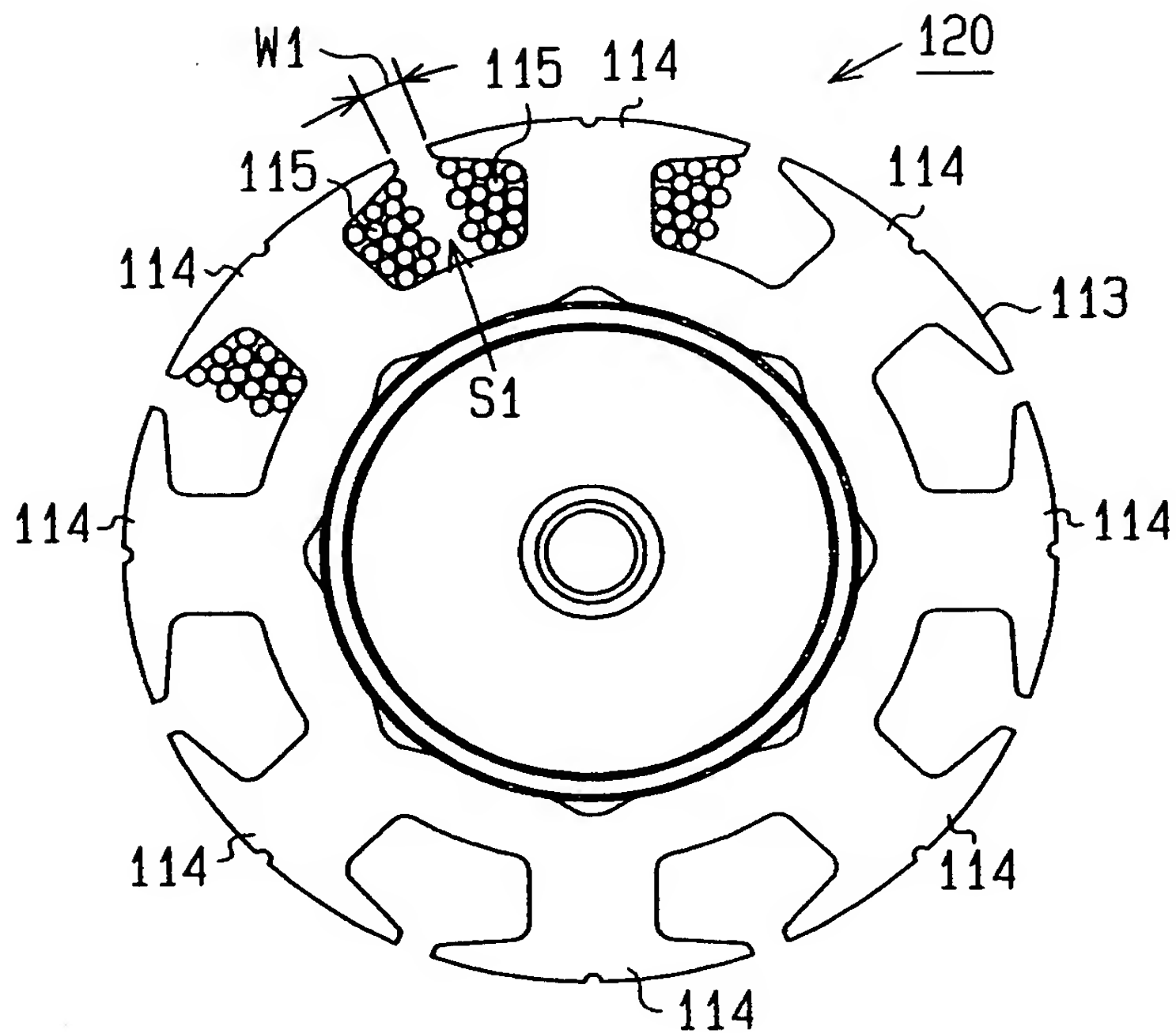
**Fig.67 (b) (Prior Art)      Fig.67 (e) (Prior Art)**



**Fig.67 (c) (Prior Art)      Fig.67 (f) (Prior Art)**



**Fig.68 (Prior Art )**



**Fig.69 (Prior Art )**

